

Small VRF system

for light commercial and home use



AIRSTAGE™ J-II

Variable Refrigerant Flow System



Meeting Various Needs with
the FUJITSU GENERAL VRF AIRSTAGE Series



FUJITSU GENERAL LIMITED

AIRSTAGE™ J-II from

Small Office to Large Homes Appli

The AIRSTAGE J-II Series adopts the best technology and was designed with the greatest care to provide not only energy savings and comfort but also ease of design, installation, and maintenance. Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.



High Energy Saving

More Design Flexibility

More Comfort

Easy Installation

More Convenience

Easy Maintenance

OUTDOOR UNITS

Various Line-up for each buildings

4HP AJ*A36LALH
5HP AJ*A45LALH
6HP AJ*A54LALH

AJ* : AJY (FUJITSU), AJH (GENERAL)

Providing
the Maximum Satisfaction
to **All Customers**

Building owners



Installers



End users



Service and Management companies



Wide lineup of indoor units and controllers to support a variety of properties.

INDOOR UNITS



Compact Cassette



Cassette



Compact Duct



Slim Duct
(Drain Pump internal)



Low Static Pressure Duct /
Duct



High
Static Pressure Duct



Floor / Ceiling



Ceiling



Compact Wall Mounted
(EEV internal / EEV external)



Wall Mounted

cations



Small Office

Large Homes



CONTROLLERS

Central Controller



Central Remote Controller



Group Remote Controller



Touch Panel Controller



System Controller (Software)

Individual Controller



Wireless Remote Controller



Simple Remote Controller



Wired Remote Controller

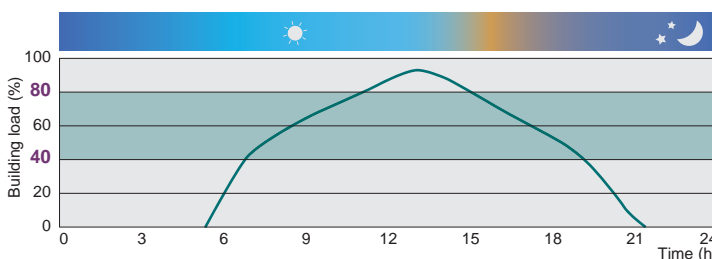
High Energy Saving

Efficiency in actual operation

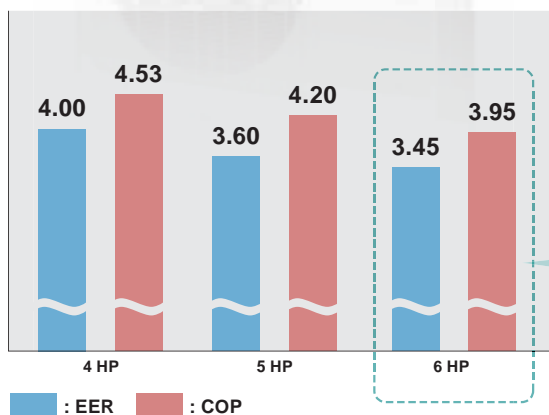
The building load is the range of almost 40 % to 80%. Therefore, most air conditioners do not operate at maximum load, but operate at low to medium loads. Especially, for multi system, operation performance at partial load is important because all the air conditioners do not always operate all the time. Aiming at energy saving performance matched to actual operation, Fujitsu General has developed a high intermediate performance air conditioner corresponding not only to the rated performance at 100% load, but also to low to medium load



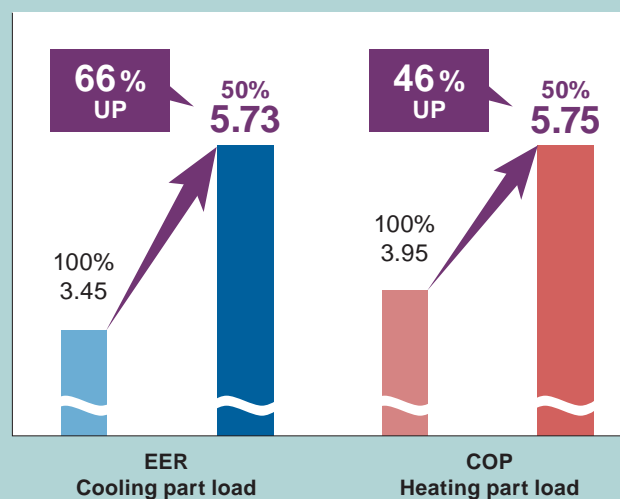
Load curve (a typical office building)



High EER / COP



High part load performance (6HP class)



Conditions : Connected indoor units: AUXA30LALH+AUXD24LALH
 Cooling : indoor temp. of 27°CDB / 19°CWB, outdoor temp. of 35°CDB / 24°CWB
 Heating : indoor temp. of 20°CDB / 15°CWB, outdoor temp. of 7°CDB / 6°CWB

Advanced high efficiency technology



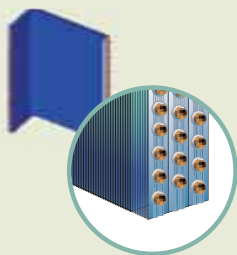
Large propeller fan

High performance and low noise realized by large propeller and optimization of angle.



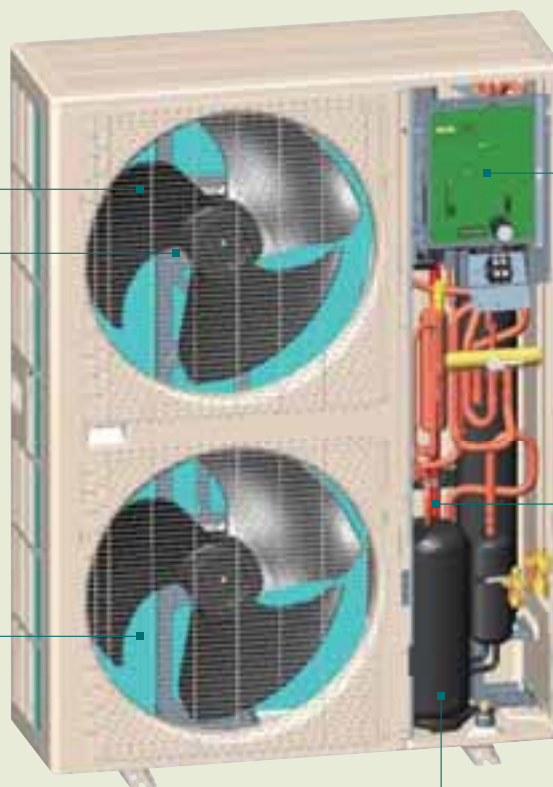
DC fan motor

Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.



Large heat exchanger

Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.



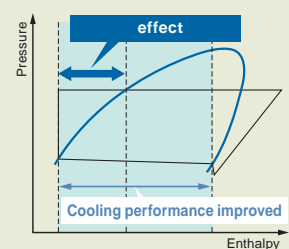
DC inverter control

Efficiency is improved by mounting of new active filter module.



Subcool heat exchanger

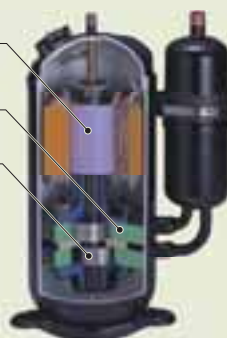
Cooling performance is improved by mounting of dual tube heat exchanger.



High efficiency compressor motor

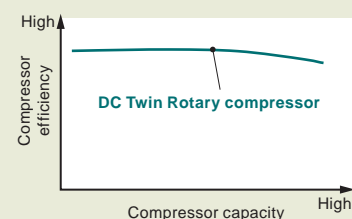
Optimized refrigerant flow design

Highly accurate parts



DC twin rotary compressor

Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.



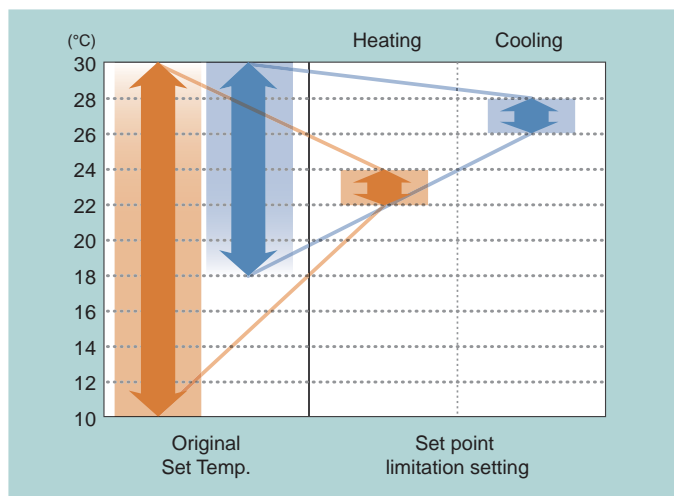
High Energy Saving

Various Energy Saving Function

Operation Performance is Efficiently Controlled.

Room temperature set point limitation

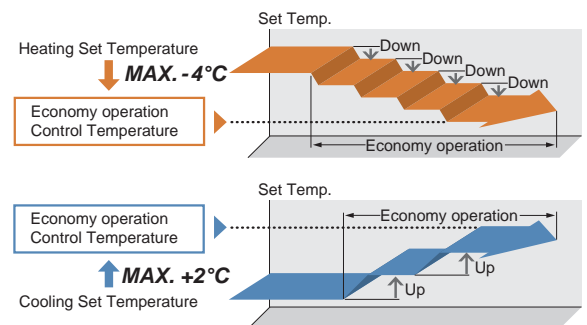
The minimum and maximum temperature range can be set.



Central Remote Controller

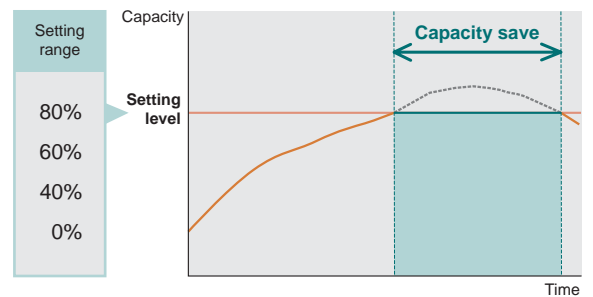
Economy operation

The temperature setting is offset automatically over a certain period of time.



Capacity save operation

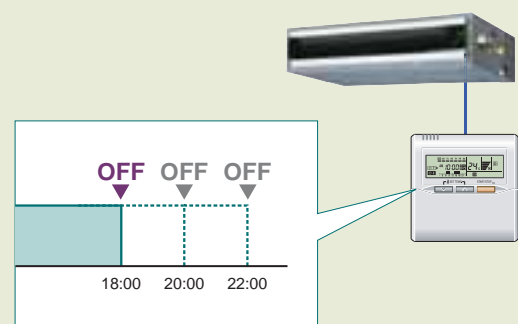
The power consumption at peak is cut down.



Wasteful Operation is Prevented.

Auto Off function

This prevents waste of energy.



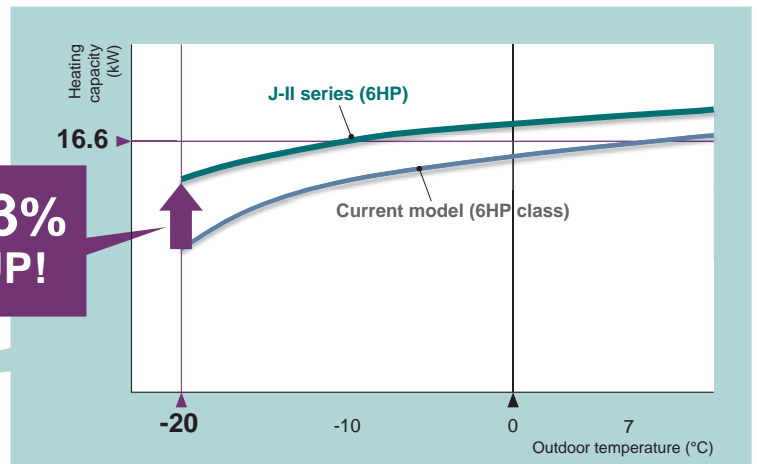
More Comfort

Powerful Heating

Heating capacity is improved at low outdoor temperature by our advanced technology.



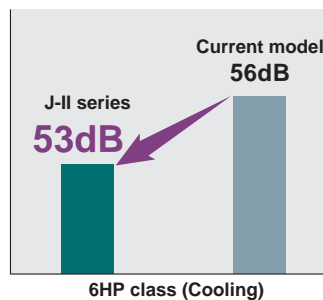
33% UP!



Low Noise Design

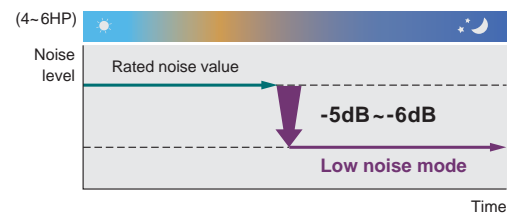
Low noise design of outdoor unit

Significantly reduced noise by optimized airflow structure design of outdoor unit.



Low noise mode

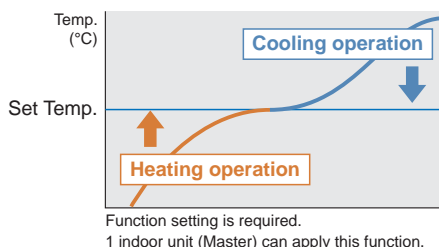
Outdoor unit can be switched to silent mode, depending on the installation environment.



Various Comfort Control Function

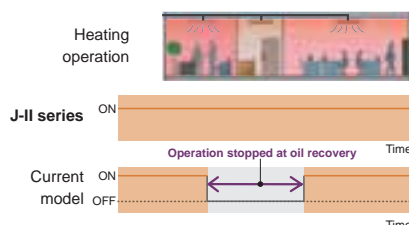
Easy auto changeover function

At the auto mode, cooling and heating mode is switched automatically to maintain the setting temperature.



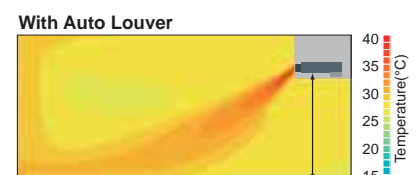
Non-stop oil recovery operation

The product continues to operate without stopping the cooling or heating operation during oil recovery modes.



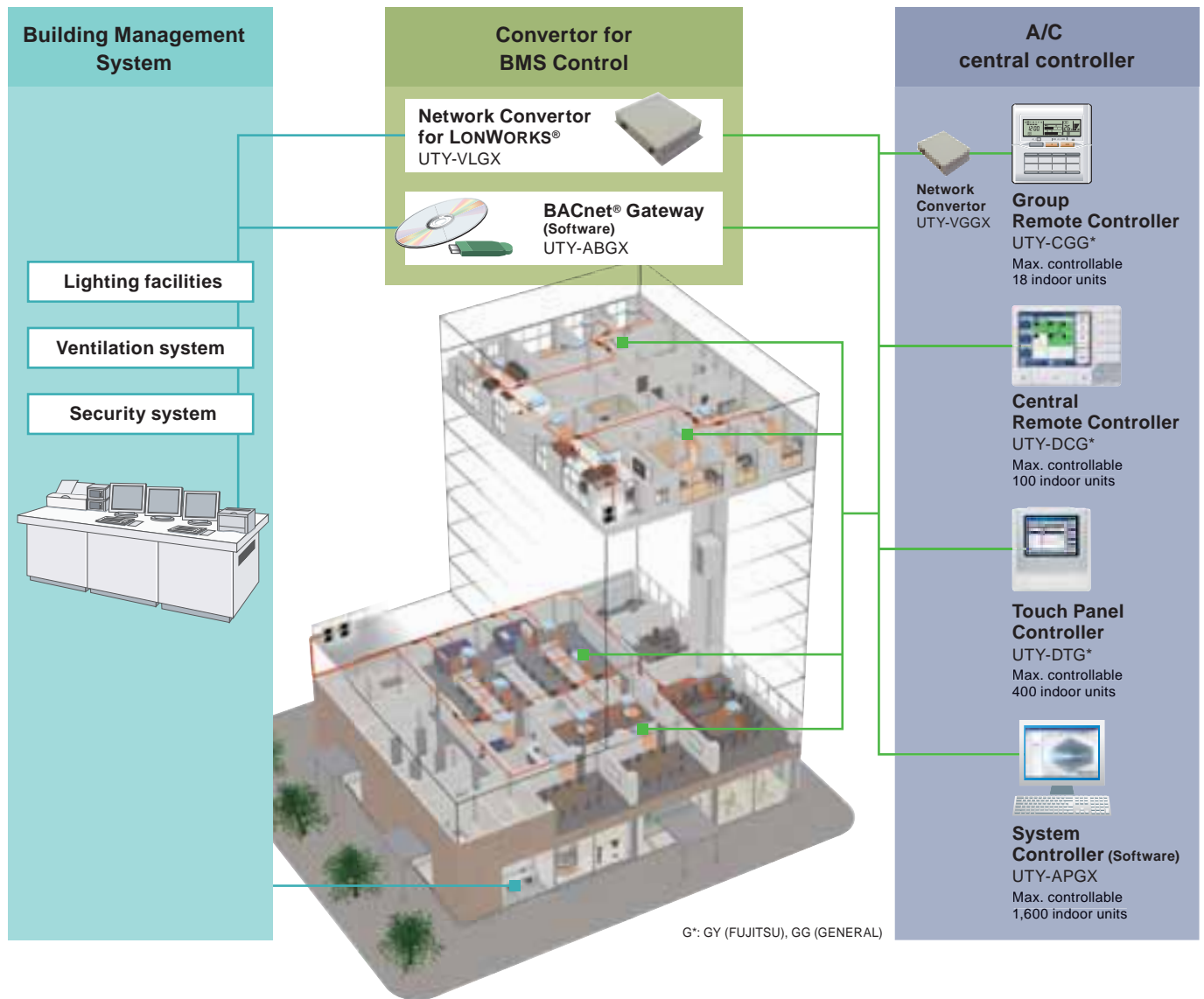
Auto louver grill (Option for Slim Duct)

Auto louver grille provides comfort and efficient heating with louver controlled ductable outlet

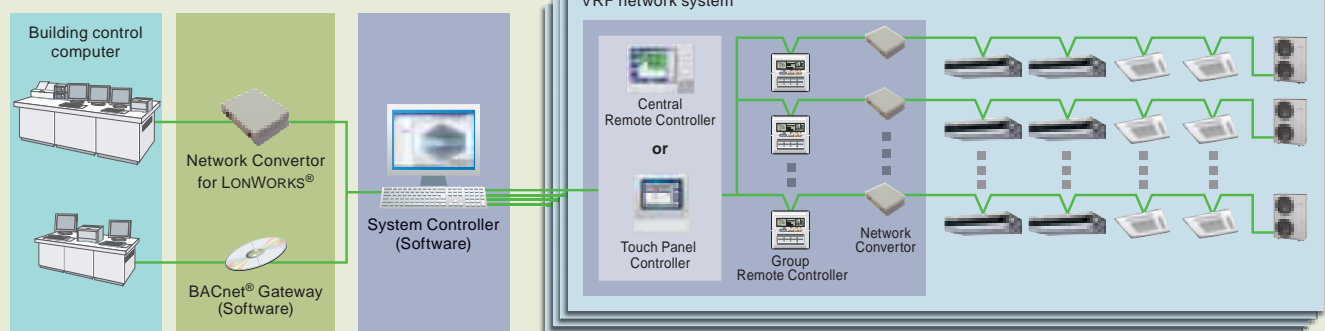


More Convenience

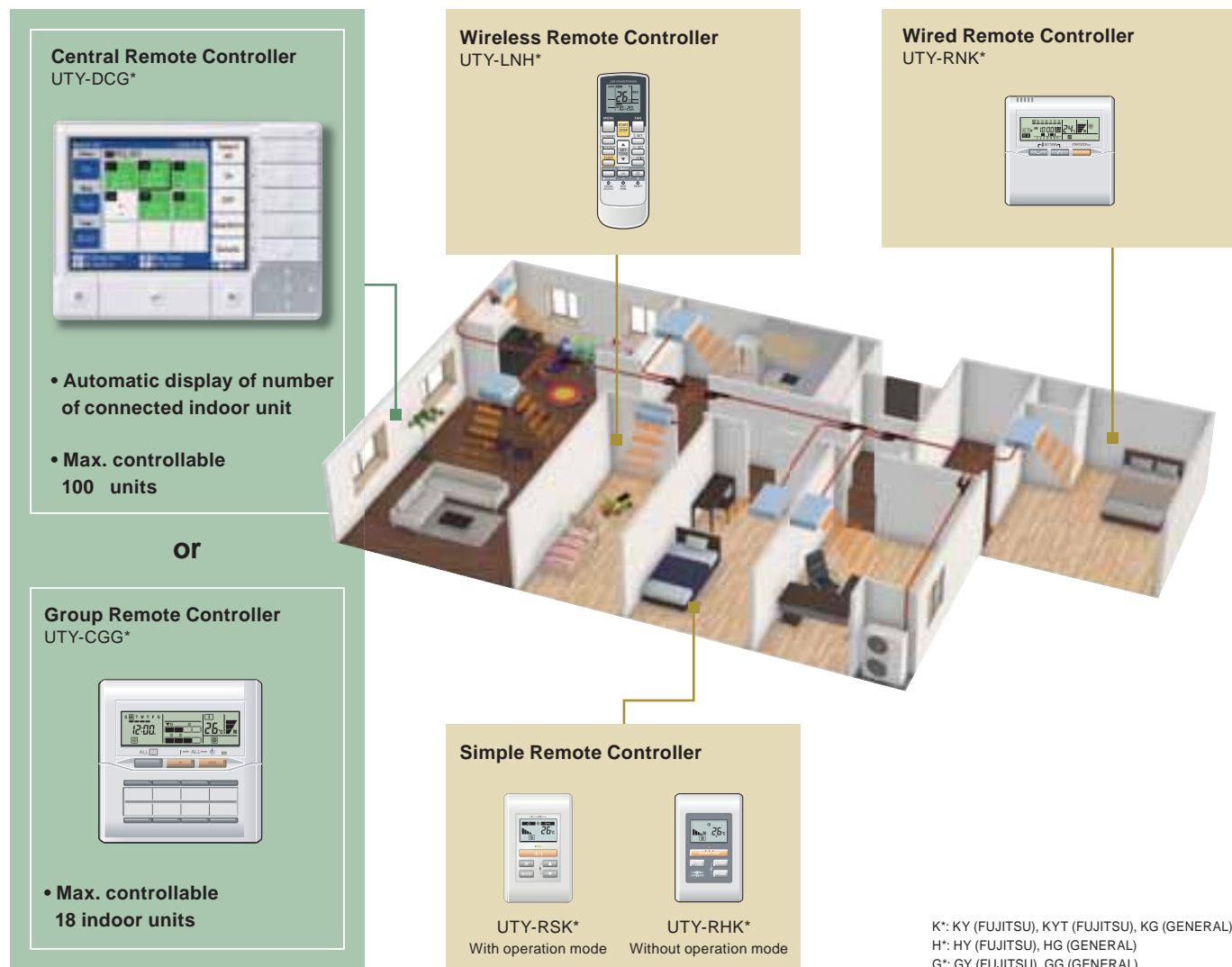
Central Control of Small Office, Shop, etc.



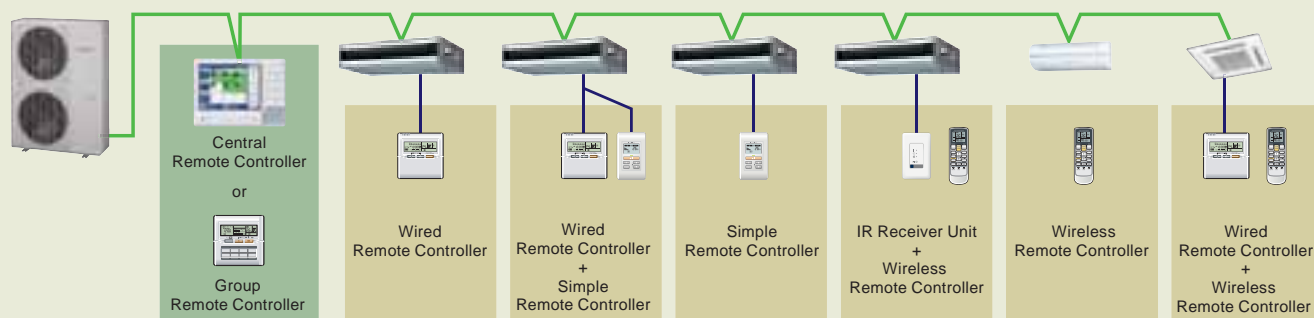
Control system composition example



Individual and Central Control of Large Homes



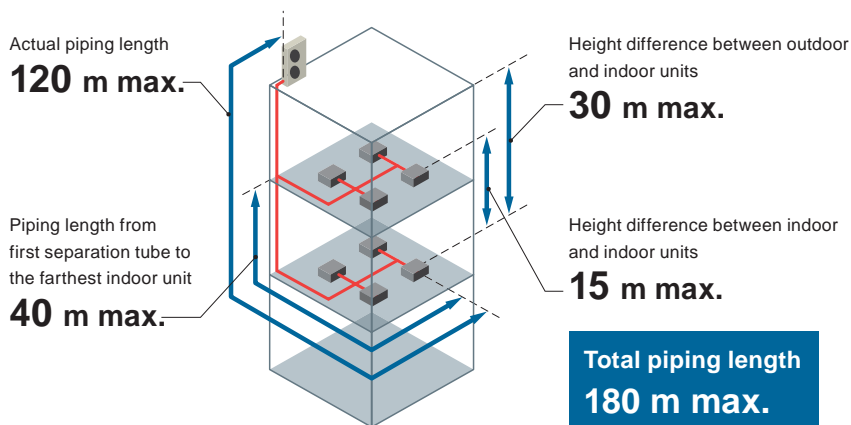
Control system composition example



More Design Flexibility

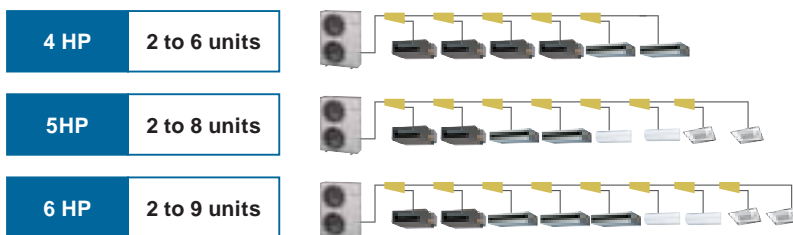
Long Piping Length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.



High Capacity Connection

Number of connectable indoor unit



Indoor unit

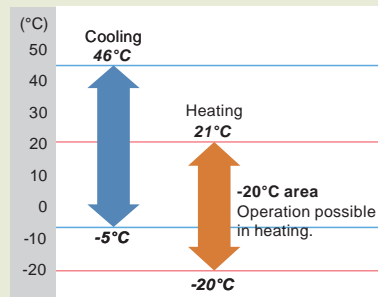
12 types,
52 models

Connectable indoor unit capacity range
130 % max.

Wide operating range

Installation in extreme temperature conditions is possible due to an increase in operational range.

Cooling : -5°C~46°C
Heating : -20°C~21°C

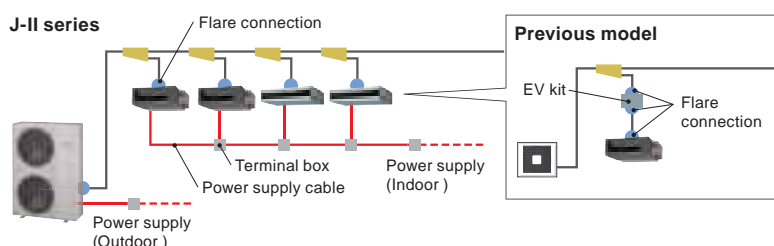


Easy Installation

Easier Installation

Easy piping connection

Improvement of the reliability by decreasing the flare connection.



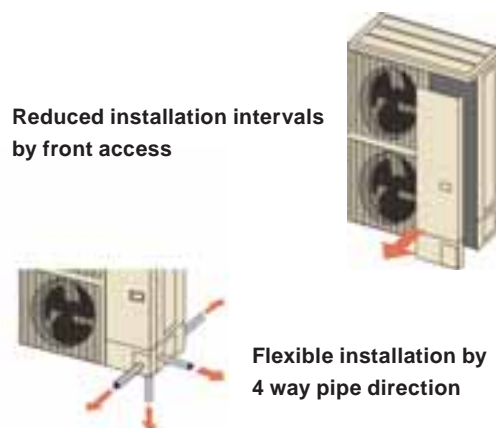
Easy wiring connection

- Decreasing wiring mistakes by using non-polar 2 wires. (Remote controller cable is 3 wires)
- Improvement of wiring installation by common with V-II power supply method.

Flexible installation of outdoor unit

Corresponds to the outdoor unit concentration installation.

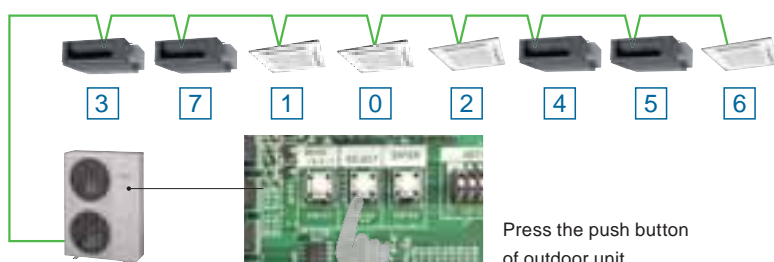
Reduced installation intervals by front access



Convenient Commissioning Support

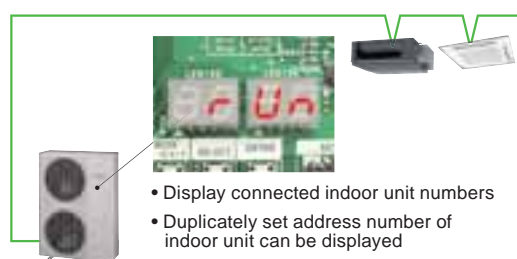
Automatic address setting function

The address of each indoor unit can be automatically set by button switch of outdoor unit.



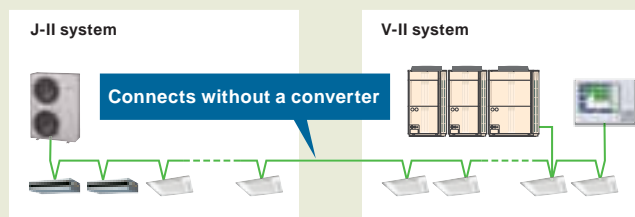
Connection check function

Possible to confirm whether wiring connection and address setting are correct by check run function for a short time.



Easy to connect with V-II communication system

It is possible to connect directly with the transmission cable of the V-II system without converter.

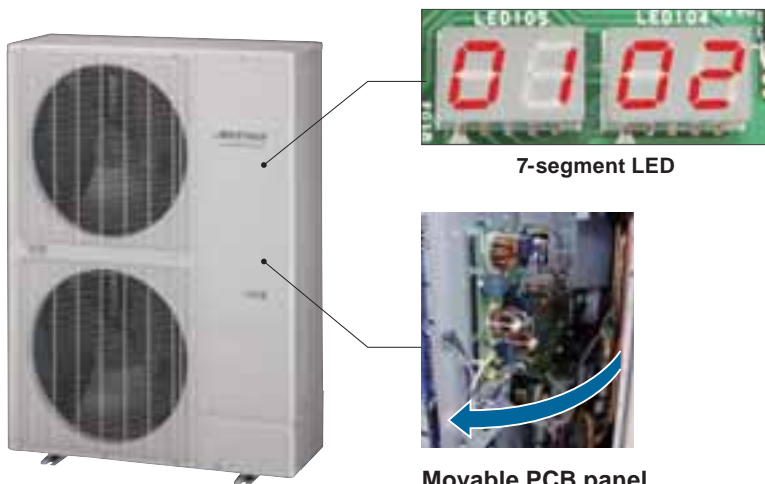


Easy Maintenance

Design for Easy Maintenance

Easy to read 7-segment LED

Confirm detail operational and trouble status without using specific equipment



7-segment LED

Movable PCB panel

Easier for maintenance work behind the PCB

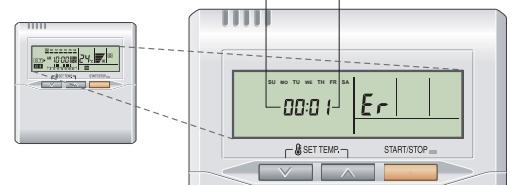
Error status can be checked easily via the indoor unit wired controller

An error code is displayed on a liquid crystal screen.

Wired Remote Controller

Faulty unit number (Remote controller address)

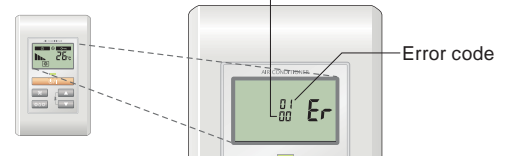
Error code



Simple Remote Controller

Remote controller address

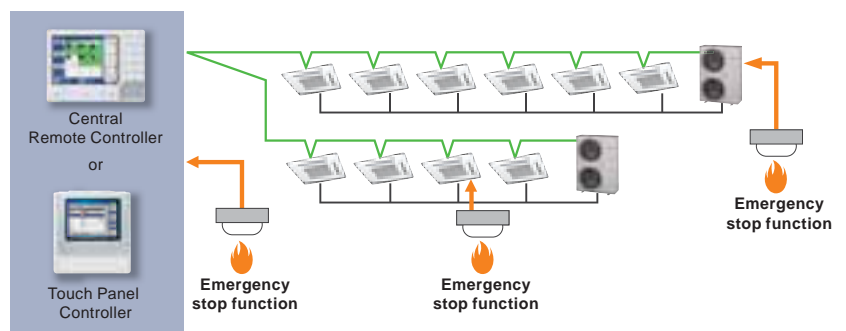
Error code



Emergency Stop Function

Emergency alarm can be received by indoor, outdoor units, Central Remote Controller or Touch Panel Controller when they received it, all units will be stopped.

Note : In case of received Emergency alarm by Indoor / outdoor unit : All units connected within same refrigerant system will be stopped.
Central Remote Controller or Touch Panel Controller : all units connected within VRF network system with Central Remote Controller or Touch Panel Controller will be stopped.



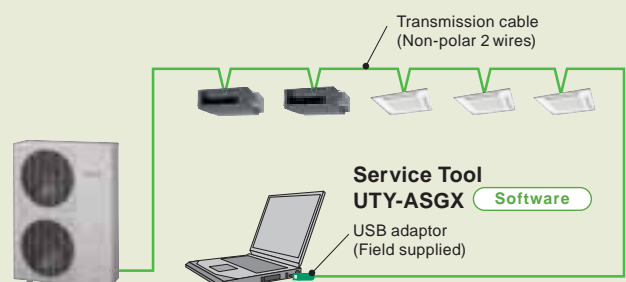
Trouble diagnosis by Service Tool

Connection to Service Tool

- Detail operation status and recent error history can be checked and analyzed by using Service Tool.
- Last 5 min. operation memory can be also recorded.



Equipment Detail (Diagram)



Indoor Unit Lineup

12 Types, 52 Models, Capacity range from 2.2kW to 14.0kW

Capacity range (kW)	2.2	2.8	3.6	4.5
Model code	7	9	12	14
Compact Cassette	 AUXB07LALH	 AUXB09LALH	 AUXB12LALH	 AUXB14LALH
Cassette				
Compact Duct	 ARXB07LALH	 ARXB09LALH	 ARXB12LALH	 ARXB14LALH
Slim Duct (Drain pump internal)	 ARXD07LATH	 ARXD09LATH	 ARXD12LATH	 ARXD14LATH
Low Static Pressure Duct				
Duct				
High Static Pressure Duct				
Floor / Ceiling			 AB*A12LBTH	 AB*A14LBTH
Ceiling				
Compact Wall Mounted (EEV internal)	 AS*A07LACH	 AS*A09LACH	 AS*A12LACH	 AS*A14LACH
Compact Wall Mounted (EEV external)	 AS*E07LACH	 AS*E09LACH	 AS*E12LACH	 AS*E14LACH
		With this model, connection of EV kit is necessary		
Wall Mounted				

*: Y(FUJITSU), H(GENERAL)

Comprehensive range of indoor units of variety design and capacity ranges available which can be selected to suit any air conditioning needs.

5.6 18	7.1 24	9.0 30	11.2 36	12.5 45	14.0 54
 AUXB18LALH	 AUXB24LALH				
 AUXD18LALH	 AUXD24LALH	 AUXA30LALH	 AUXA36LALH	 AUXA45LALH	 AUXA54LALH
 ARXB18LALH					
 ARXD18LATH	 ARXD24LATH				
	 ARXB24LATH	 ARXB30LATH	 ARXB36LATH	 ARXB45LATH	
	 ARXA24LATH	 ARXA30LATH	 ARXA36LATH	 ARXA45LATH	
			 ARXC36LATH	 ARXC45LATH	
 AB*A18LBTH	 AB*A24LBTH				
		 AB*A30LBTH	 AB*A36LBTH	 AB*A45LBTH	 AB*A54LBTH
 AS*A18LACH	 AS*A24LACH	 AS*A30LACH			

Compact Cassette

AUXB07LALH AUXB14LALH
AUXB09LALH AUXB18LALH
AUXB12LALH AUXB24LALH



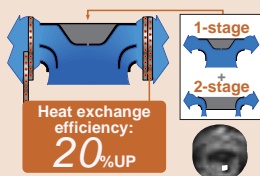
Grille is an option

Powerful wide air flow & Quiet operation

High efficiency 2-stage turbo fan

2-stage turbo fan

A evenly spread air distribution across the heat exchanger is possible due to the new 2 stage turbo fan which produces two separate airflow streams.



Previous turbo fan

In the case of a conventional fan, the air outlet range was narrow as the airflow moved to the motor side which meant the velocity of air passing through the heat exchanger was uneven.

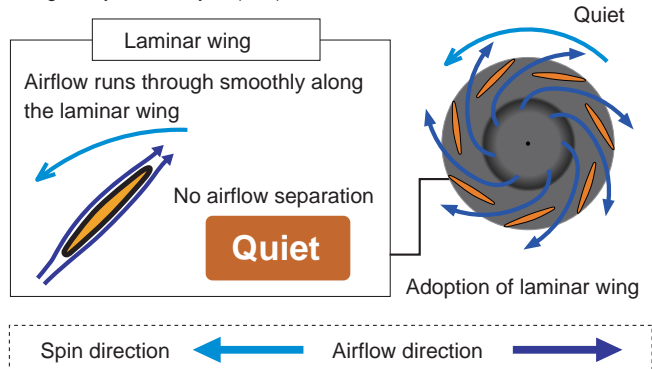


Wind velocity
Fast
Slow

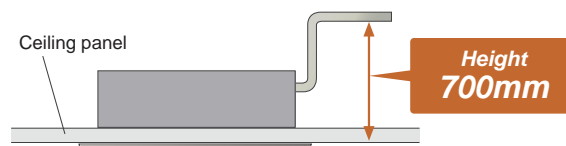
Quiet quality

Optimization of wing form (laminar wing type) and wing number (7 blades each)

Designed by CFD-analysis (fluid) simulations



High lift drain pump



Optional parts

Air Outlet Shutter Plate: UTR-YDZB
Fresh Air Intake Kit: UTZ-VXAA
Insulation Kit For High Humidity: UTZ-KXGC

Specifications

Model No.			AUXB07LALH	AUXB09LALH	AUXB12LALH	AUXB14LALH	AUXB18LALH	AUXB24LALH
Power source		V/ø/Hz	1Ø, 230V ~, 50Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		2.8	3.2	4.1	5.0	6.3	8.0
Input power		W	25	25	29	35	36	84
Air flow rate	High	m³/h	540	550	600	680	710	1,030
	Med		450	450	530	590	580	830
	Low		350	350	390	390	400	450
Sound pressure level	High	dB(A)	34	35	37	38	41	50
	Med		30	30	34	34	35	44
	Low		25	25	27	27	27	30
Dimensions (H x W x D)		mm	245 x 570 x 570					
Weight		kg	15				17	
Connection pipe diameter	Liquid (Flare)	mm	ø6.35				ø9.52	
	Gas (Frare)		ø12.70				ø15.88	
	Drain		ø25 (I.D.) ; ø32 (O.D.)					
Grille (option)	Model name		UTG-UFYC-W (FUJITSU brand); UTG-UFGC-W (GENERAL brand)					
	Dimensions (H x W x D)		50 x 700 x 700					
	Weight		2.6					

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

Cassette

AUXD18LALH AUXA36LALH
 AUXD24LALH AUXA45LALH
 AUXA30LALH AUXA54LALH

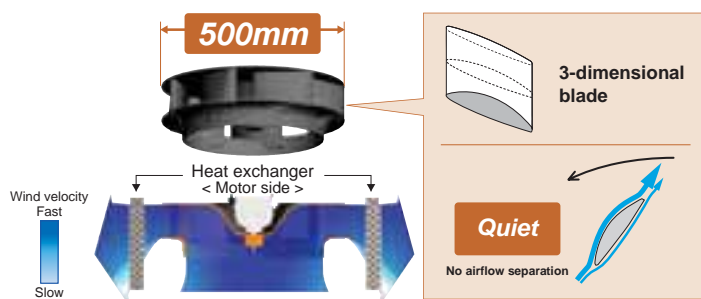


Grille is an option

Powerful, wide airflow and quiet operation

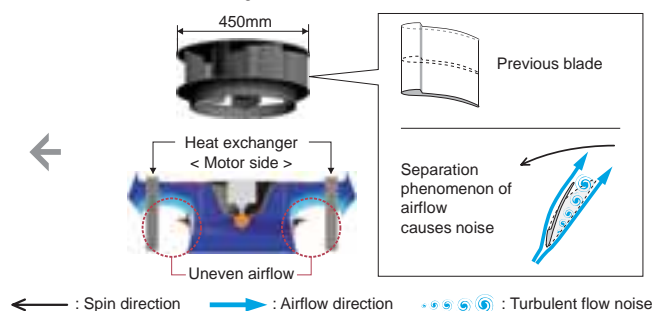
High efficiency turbo fan with 3-dimensional blade

High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.



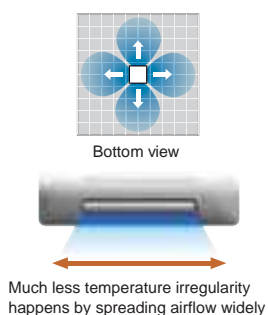
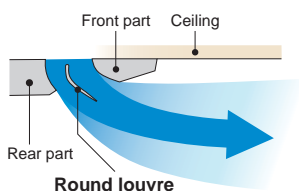
Previous turbo fan

Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.



Improvement of the airflow distribution

The louvre design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.



Optional parts

IR Receiver Kit : UTY-LRH*B1
 Air Outlet Shutter Plate : UTR-YDZC
 Panel Spacer : UTG-BGYA-W
 Insulation Kit for High Humidity : UTZ-KXGA / UTZ-KXGB
 Wide Panel : UTG-AGYA-W
 Fresh Air Intake Kit : UTZ-VXGA
 H* : HY(FUJITSU), HG(GENERAL)

Specifications

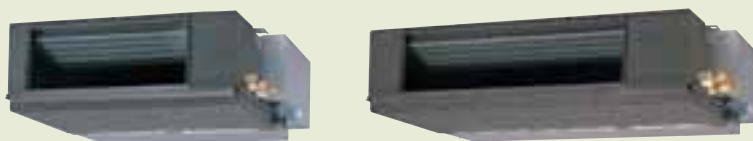
Model No.			AUXD18LALH	AUXD24LALH	AUXA30LALH	AUXA36LALH	AUXA45LALH	AUXA54LALH
Power source		V/ø/Hz	1Ø, 230V ~, 50Hz					
Capacity	Cooling	kW	5.6	7.1	9.0	11.2	12.5	14.0
	Heating		6.3	8.0	10.0	12.5	14.0	16.0
Input power		W	39	46	59	80	99	119
Air flow rate	High	m³/h	1,150	1,280	1,600	1,800	1,900	2,000
	Med		940	1,040	1,300	1,300	1,370	1,370
	Low		870	870	1,100	1,100	1,100	1,100
Sound pressure level	High	dB(A)	36	38	40	44	46	47
	Med		30	33	38	38	39	39
	Low		29	29	33	33	33	33
Dimensions (H x W x D)		mm	246 x 840 x 840			288 x 840 x 840		
Weight		kg	23			27		
Connection pipe diameter	Liquid (Flare)	mm	ø9.52					
	Gas (Frare)		ø15.88			ø19.05		
	Drain		ø25 (I.D.) ; ø32 (O.D.)					
Grille (option)	Model name		UTG-UGYA-W (FUJITSU brand); UTG-UGGA-W (GENERAL brand)					
	Dimensions (H x W x D)		mm	50 x 950 x 950				
	Weight		kg	5.5				

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

Compact Duct

ARXB07LALH ARXB14LALH
ARXB09LALH ARXB18LALH
ARXB12LALH

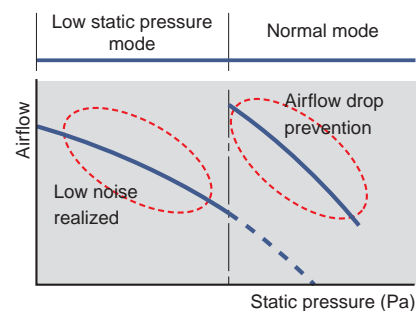


Small and compact indoor unit suitable for many applications

Low noise level

A low noise level has been achieved for each capacity

Model		7	9	12	14	18
Static pressure range	Pa	0 to 50				
Noise level (Low speed)	dB(A)	24	27	25	30	30



Compact design

Ultra-slim duct air conditioner for easy installation



Height
217mm

Slim size (217mm) allows installation even where the space behind the ceiling is narrow.

Flexible installation

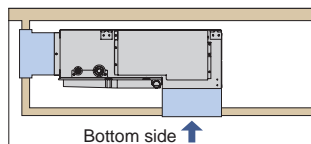
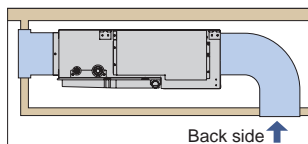
Ceiling concealed



Floor concealed



Air-intake



Air-intake at back side makes it possible to reduce the noise effectively.

Optional parts

Remote Sensor Unit : UTD-RS100
IR Receiver Unit : UTB-*WC
Drain Pump Unit : UTZ-PX1BBA
*WC : YWC, TWC

Specifications

Model No.			ARXB07LALH	ARXB09LALH	ARXB12LALH	ARXB14LALH	ARXB18LALH
Power source	V/ø/Hz		1Ø, 230V ~, 50Hz				
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6
	Heating	kW	2.8	3.2	4.0	5.0	6.3
Input power		W	46	55	63	90	96
Air flow rate	High	m³/h	370	440	590	800	890
	Med	m³/h	310	370	500	750	810
	Low	m³/h	280	340	450	700	730
Static pressure range		Pa	0 to 50	0 to 50	0 to 50	0 to 50	0 to 50
Standard static pressure		Pa	25	25	25	25	25
Sound pressure level ^{*1}	High	dB(A)	29	31	30	33	36
	Med	dB(A)	26	29	28	32	34
	Low	dB(A)	24	27	25	30	30
Dimensions (H x W x D)		mm	217 x 663 x 595			217 x 953 x 595	
Weight		kg	18			25	
Connection pipe diameter	Liquid (Flare)	mm	ø6.35				ø9.52
	Gas (Frare)	mm	ø12.70				ø15.88
	Drain	mm	ø25 (I.D.) ; ø32 (O.D.)				

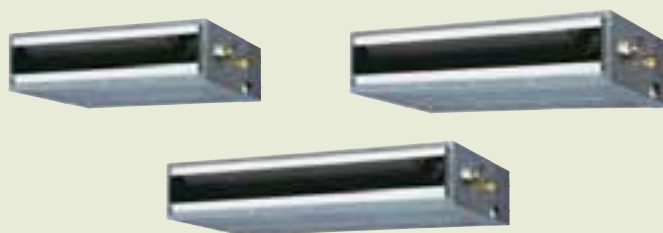
Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

*1: For the air-intake at bottom, the operation noise is larger than the value mentioned in the above table.

Slim Duct

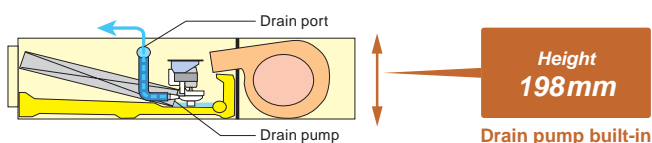
ARXD07LATH ARXD14LATH
ARXD09LATH ARXD18LATH
ARXD12LATH ARXD24LATH



•Slim design with drain pump •Increase static pressure range

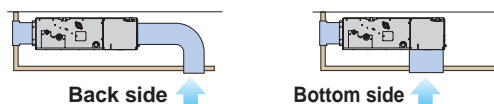
Slim design

This model is slim design, it can install at the place where a ceiling is narrow.



Air-intake

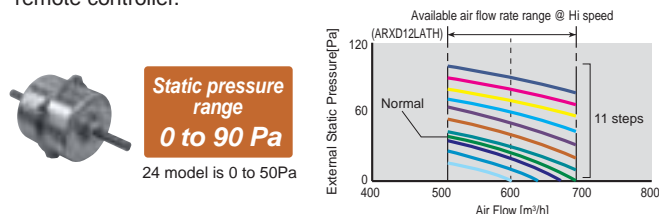
Air intake direction can be selected to match the installation site.



Depending on the installation site, air-intake at back side makes it possible to reduce the noise effectively.

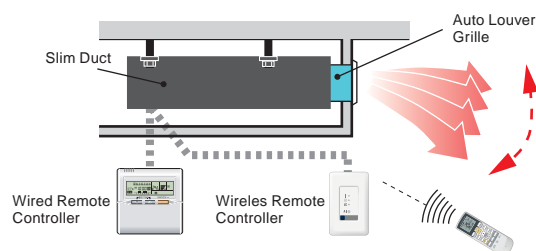
Selectable wide range static pressure

By using DC fan motor, it is possible to change the static pressure range 0 to 90Pa. The change of static pressure range is possible by remote controller.



Auto Louver Grille Kit (Option)

Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.



Flexible installation

Ceiling concealed



Floor concealed



Optional parts

IR Receiver Unit: UTB-*WC
Remote Sensor Unit: UTD-RS100
Auto Louver Grille Kit: UTD-GXSA-W (for ARXD07/09/12/14LATH)
UTD-GXSB-W (for ARXD18LATH)
UTD-GXSC-W (for ARXD24LATH)

*WC : YWC, TWC

Specifications

Model No.			ARXD07LATH	ARXD09LATH	ARXD12LATH	ARXD14LATH	ARXD18LATH	ARXD24LATH
Power source		V/ø/Hz	1Ø, 230V ~, 50Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	44	50	54	92	83	122
Air flow rate	High	m³/h	550	600	600	800	940	1,330
	Med		490	550	510	710	840	1,240
	Low		440	480	450	610	750	1,100
Static pressure range		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50
Standard static pressure			25	25	25	25	25	25
Sound pressure level ^{*1}	High	dB(A)	28	29	30	34	34	35
	Med		25	26	27	32	32	32
	Low		22	24	24	28	28	29
Dimensions (H x W x D)		mm	198 x 700 x 620				198 x 900 x 620	198 x 1,100 x 620
Weight		kg	18		19		23	27
Connection pipe diameter	Liquid (Flare)	mm	ø6.35				ø9.52	
	Gas (Frare)		ø12.70				ø15.88	
	Drain		ø25 (I.D.) ; ø32 (O.D.)					

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

*1: For the air-intake at bottom, the operation noise is larger than the value mentioned in the above table.

Low Static Pressure Duct/Duct

Low Static Pressure Duct

ARXB24LATH

ARXB30LATH

ARXB36LATH

ARXB45LATH

Duct

ARXA24LATH

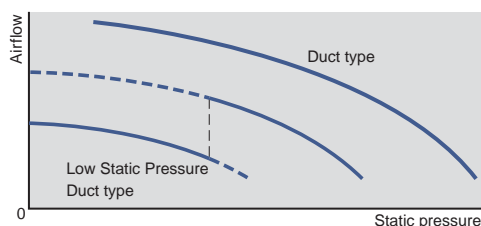
ARXA30LATH

ARXA36LATH

ARXA45LATH



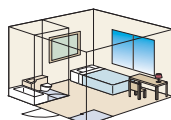
Line-up of low-noise and high-power models, compatible with a wide range of static pressure



Low Static Pressure Duct type

Optimum model for hotels or bedrooms

An ultra low-noise model that achieves a quiet interior. Perfect for hotels or bedrooms with limited air duct installation space. Two different levels can be selected according to the static pressure range.



29dB

ARXB30
Low

Duct type

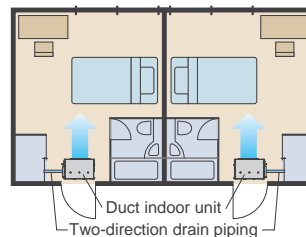
Powerful model with a flexible design

With a powerful motor, appropriate for a wide range of static pressure. Flexible air duct installation is possible in a large space such as an office.



**Max.
150Pa**

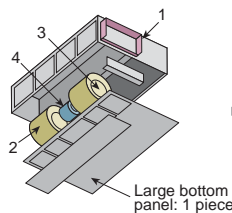
Two-direction drain piping



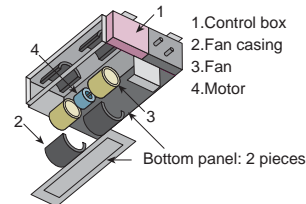
Easy maintenance

See below for the case of rear suction type

Previous model



New model



Optional parts

Remote Sensor Unit : UTD-RS100

Long-Life Filter : UTD-LF25NA

Flange (Square) : UTD-SF045T

*WC : YWC, TWC

Flange (Round) : UTD-RF204

IR Receiver Unit : UTB-*WC

Drain Pump Unit : UTZ-PX1NBA

Specifications

Model No.			ARXB24LATH	ARXB30LATH	ARXB36LATH	ARXB45LATH	ARXA24LATH	ARXA30LATH	ARXA36LATH	ARXA45LATH
Power source		V/ø/Hz	1Ø, 230V ~, 50Hz				1Ø, 230V ~, 50Hz			
Capacity	Cooling	kW	7.1	9.0	11.2	12.5	7.1	9.0	11.2	12.5
	Heating		8.0	10.0	12.5	14.0	8.0	10.0	12.5	14.0
Input power		W	145	198	253	338	190	188	312	312
Air flow rate	High	m³/h	1,100	1,410	1,710	1,970	1,280	1,280	1,720	1,720
	Med		920	1,280	1,600	1,790	1,210	1,210	1,670	1,670
	Low		810	1,150	1,470	1,670	1,130	1,130	1,600	1,600
Static pressure range		Pa	0 to 80	0 to 80	0 to 80	0 to 80	30 to 150	30 to 150	30 to 150	30 to 150
Standard static pressure			40	50	50	60	100	100	100	100
Sound pressure level	High	dB(A)	31	34	37	41	38	40	43	43
	Med		27	32	35	38	36	38	41	41
	Low		25	29	33	36	34	36	39	39
Dimensions (H x W x D)		mm	270 x 1,135 x 700				270 x 1,135 x 700			
Weight		kg	43	45			43	45		
Connection pipe diameter	Liquid (Flare)	mm	ø9.52				ø9.52			
	Gas (Frare)		ø15.88		ø19.05		ø15.88		ø19.05	
	Drain		ø25 (I.D.) ; ø32 (O.D.)				ø25 (I.D.) ; ø32 (O.D.)			

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

High Static Pressure Duct

ARXC36LATH

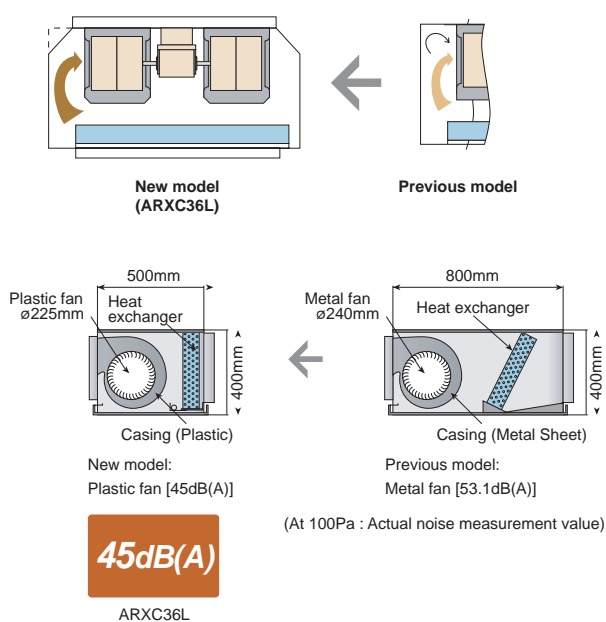
ARXC45LATH



These indoor units allow for high airflow quantities

Low noise design

Cutting off the corners of the conventional indoor unit front panel and fan casing, has enabled less turbulent air flow. Low noise is realized by adopting a plastic case and a plastic fan.

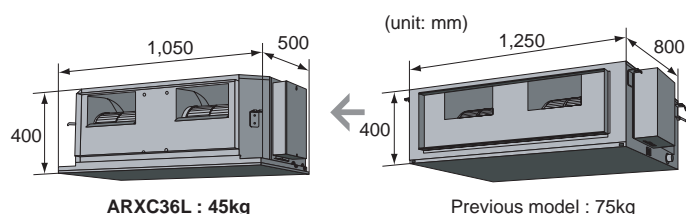


Easy installation (Compact size & Lightweight)

A compact size and lightweight indoor unit has been developed by reducing the basic chassis and the overall material weight.

Volume
47.5%
down

Weight
40%
down



Optional parts

Long-Life Filter : UTD-LF60KA
IR Receiver Unit : UTB-*WC
Remote Sensor Unit : UTD-RS100
*WC : YWC, TWC

Specifications

Model No.			ARXC36LATH	ARXC45LATH
Power source		V/ø/Hz	1Ø, 230V ~, 50Hz	
Capacity	Cooling	kW	11.2	12.5
	Heating	kW	12.5	14.0
Input power		W	405	427
Air flow rate	High	m³/h	2,600	3,500
	Med	m³/h	1,950	3,000
	Low	m³/h	1,450	2,460
Static pressure range		Pa	100 to 200	100 to 250
Standard static pressure		Pa	100	100
Sound pressure level	High	dB(A)	45	49
	Med	dB(A)	38	45
	Low	dB(A)	32	42
Dimensions (H x W x D)		mm	400 x 1,050 x 500	
Weight		kg	45	47
Connection pipe diameter	Liquid (Flare)	mm	ø9.52 (Flare)	
	Gas (Frare)	mm	ø19.05 (Flare)	
	Drain	mm	ø25 (I.D.) ; ø32 (O.D.)	

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

Floor / Ceiling Type

AB*A12LBTH
AB*A14LBTH
AB*A18LBTH
AB*A24LBTH



The slim and lightweight design allow the unit to be suspended from the ceiling or installed on the floor. This type suits many room designs

Flexible installation

Example for floor installation

Floor console



Easy maintenance

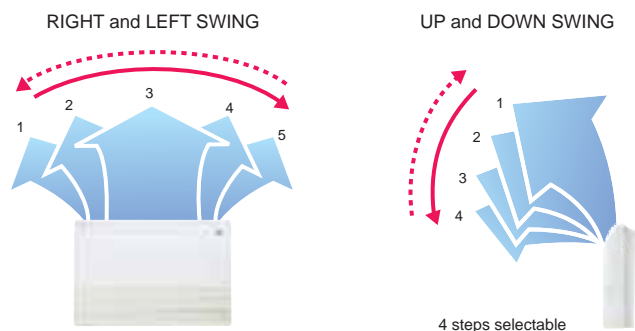
Example for ceiling installation

Under ceiling



Double auto swing

A combination of up/down and right/left directional swing allows three-dimensional air direction control.



High power DC fan motor

- High power
- Wide rotation range
- High efficiency



Compact design

Symmetrical, slim and compact design.



Specifications

Model No.			AB*A12LBTH	AB*A14LBTH	AB*A18LBTH	AB*A24LBTH
Power source		V/ø/Hz	1Ø, 230V ~, 50Hz			
Capacity	Cooling	kW	3.6	4.5	5.6	7.1
	Heating		4.0	5.0	6.3	8.0
Input power		W	30	42	74	99
Air flow rate	High	m³/h	660	780	1,000	1,000
	Med		570	640	720	820
	Low		490	550	580	680
Sound pressure level	High	dB(A)	36	40	46	47
	Med		32	36	39	42
	Low		28	34	35	37
Dimensions (H x W x D)		mm	199 x 990 x 655			
Weight		kg	25	27		
Connection pipe diameter	Liquid (Flare)	mm	ø6.35		ø9.52	
	Gas (Frare)		ø12.70		ø15.88	
	Drain		ø25 (I.D.) ; ø32 (O.D.)			

AB* : ABY(FUJITSU), ABH(GENERAL)

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
Voltage : 230 [V].

Ceiling Type

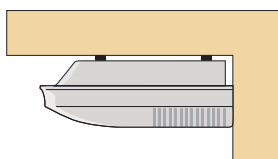
AB*A30LBTH
AB*A36LBTH
AB*A45LBTH
AB*A54LBTH



Easily concealed in any installation

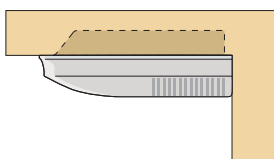
Installation

Open



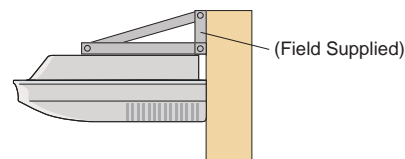
General installation pattern which suspends the indoor unit from the ceiling.

Concealed



Installation pattern where part of the indoor unit is embedded into the ceiling.

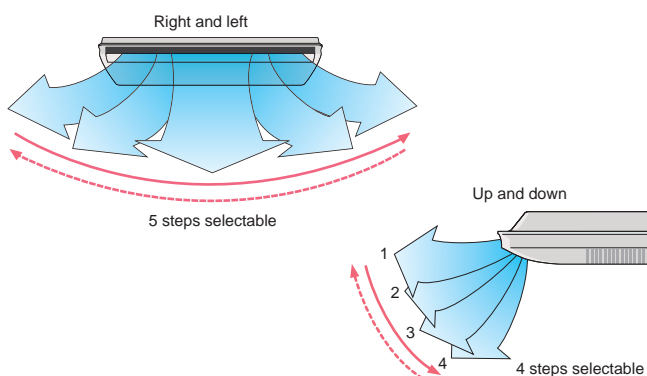
Wall mounted



Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied). This type of installation can be used when the ceiling space is insufficient.

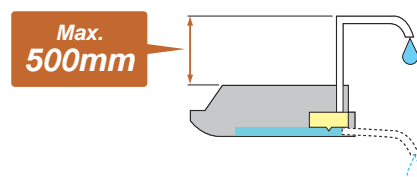
Double auto swing and wide airflow

Auto airflow direction and auto swing

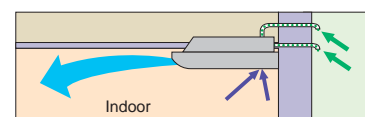


Condensate lift-up mechanism (Option)

Optional drain lift-up mechanism allows flexible installation.



Fresh air intake



Optional parts

Drain Pump Unit : UTR-DPB24T
Flange : UTD-RF204

Specifications

Model No.			AB*A30LBTH	AB*A36LBTH	AB*A45LBTH	AB*A54LBTH
Power source		V/ø/Hz	1Ø, 230V ~, 50Hz			
Capacity	Cooling	kW	9.0	11.2	12.5	14.0
	Heating		10.0	12.5	14.0	16.0
Input power		W	66	85	131	180
Air flow rate	High	m³/h	1,630	1,690	2,010	2,270
	Med		1,370	1,400	1,600	1,780
	Low		1,140	1,170	1,230	1,280
Sound pressure level	High	dB(A)	42	45	48	51
	Med		38	38	42	45
	Low		33	34	35	36
Dimensions (H x W x D)		mm	240 x 1,660 x 700			
Weight		kg	47	48		
Connection pipe diameter	Liquid (Flare)	mm	ø9.52			
	Gas (Frare)		ø15.88	ø19.05		
	Drain		ø25 (I.D.) ; ø32 (O.D.)			

AB* : ABY(FUJITSU), ABH(GENERAL)

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
Voltage : 230 [V].

Compact Wall Mounted Type

EEV internal

AS*A07LACH

AS*A09LACH

AS*A12LACH

AS*A14LACH

EEV external

AS*E07LACH

AS*E09LACH

AS*E12LACH

AS*E14LACH



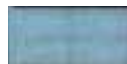
Simple design with energy saving.

Compact design

New model



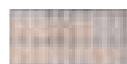
Air conditioner filter features



**Long-life*
ion deodorization filter**

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

*The filter can be used for approx. 3 years if it is washed under water to restore its surface action when it is dirty.



Apple-catechin filter

Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol ingredient extracted from apples.

More Comfort & Convenience

- Powerful cooling & heating by using DC fan motor
- Auto-restart function memorizes the operating mode as before, once the power supply is restored.
- Comfortable timer (ON, OFF, PROGRAM, SLEEP)

Easy maintenance

Removable & washable panel



Specifications

Model No.			AS*A07LACH	AS*A09LACH	AS*A12LACH	AS*A14LACH	AS*E07LACH	AS*E09LACH	AS*E12LACH	AS*E14LACH
Power source		V/ø/Hz	1Ø, 230V ~, 50Hz				1Ø, 230V ~, 50Hz			
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	2.2	2.8	3.6	4.5
	Heating		2.8	3.2	4.1	5.0	2.8	3.2	4.1	5.0
Input power		W	16	16	19	30	15	16	20	28
Air flow rate	High	m³/h	490	500	560	670	490	500	560	680
	Med		450	450	480	490	450	450	480	490
	Low		370	370	420	420	370	370	420	420
Sound pressure level	High	dB(A)	35	36	39	44	34	35	38	43
	Med		33	33	35	37	32	32	34	35
	Low		27	27	31	32	26	26	30	30
Dimensions (H x W x D)		mm	275 x 790 x 215				275 x 790 x 215			
Weight		kg	9				9			
Connection pipe diameter	Liquid (Flare)	mm	ø6.35				ø6.35			
	Gas (Frare)		ø12.70				ø12.70			
	Drain		ø13.8(I.D.) ; ø15.8-ø16.7(O.D.)				ø13.8(I.D.) ; ø15.8-ø16.7(O.D.)			
EV Kit (option)			-				UTR-EV09XB		UTR-EV14XB	

AS* : ASY(FUJITSU), ASH(GENERAL)

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

Voltage : 230 [V].

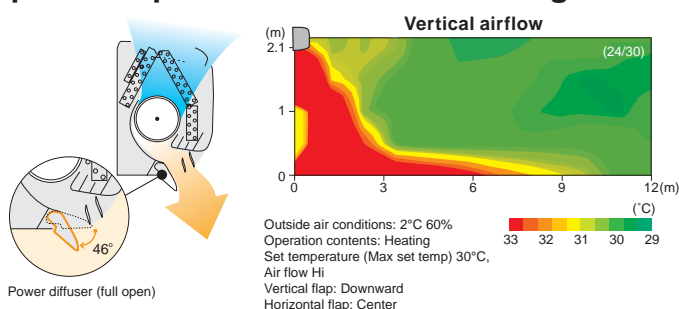
Wall Mounted Type

AS*A18LACH
AS*A24LACH
AS*A30LACH

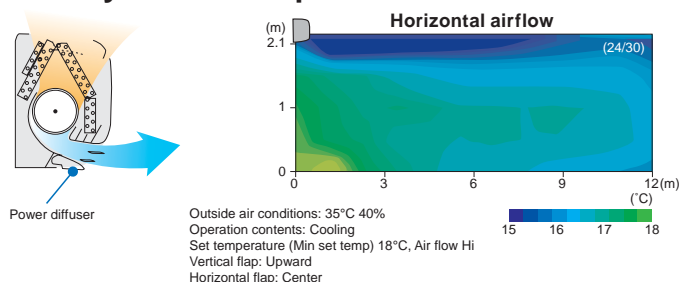


Simple & Elegant Appearance Design

“Vertical airflow” provides powerful floor level heating



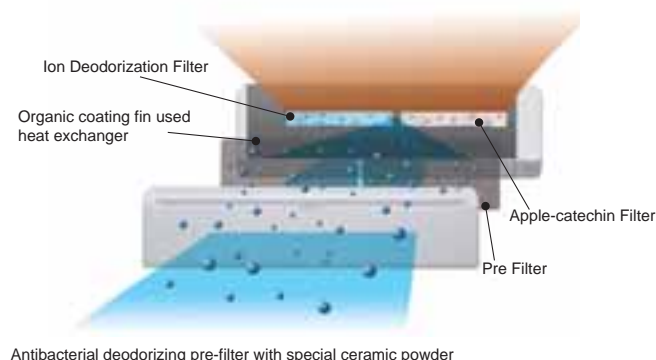
“Horizontal airflow” does not blow cool air directly at the occupants in the room



Easy maintenance

Simplification of drain pan cleaning improves maintenance-ability.

Air conditioner filter features



Long-life* Ion Deodorization Filter

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

(*The filter can be used for approx. 3 years if it is washed under water to restore its surface action when it is dirty.)

✚ Using different filters at both sides

Apple-catechin Filter

Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol ingredient extracted from apples.

Specifications

Model No.			AS*A18LACH	AS*A24LACH	AS*A30LACH
Power source		V/ø/Hz	1Ø, 230V ~, 50Hz		
Capacity	Cooling	kW	5.6	7.1	8.0
	Heating		6.3	8.0	9.0
Input power		W	35	64	91
Air flow rate	High	m³/h	840	1,100	1,240
	Med		770	910	980
	Low		690	730	770
Sound pressure level	High	dB(A)	41	48	52
	Med		39	43	45
	Low		35	35	35
Dimensions (H x W x D)		mm	320 x 998 x 228		
Weight		kg	15		
Connection pipe diameter	Liquid (Flare)	mm	ø9.52		
	Gas (Frare)		ø15.88		
	Drain		ø12 (I.D.) ; ø16 (O.D.)		

AS* : ASY(FUJITSU), ASH(GENERAL)

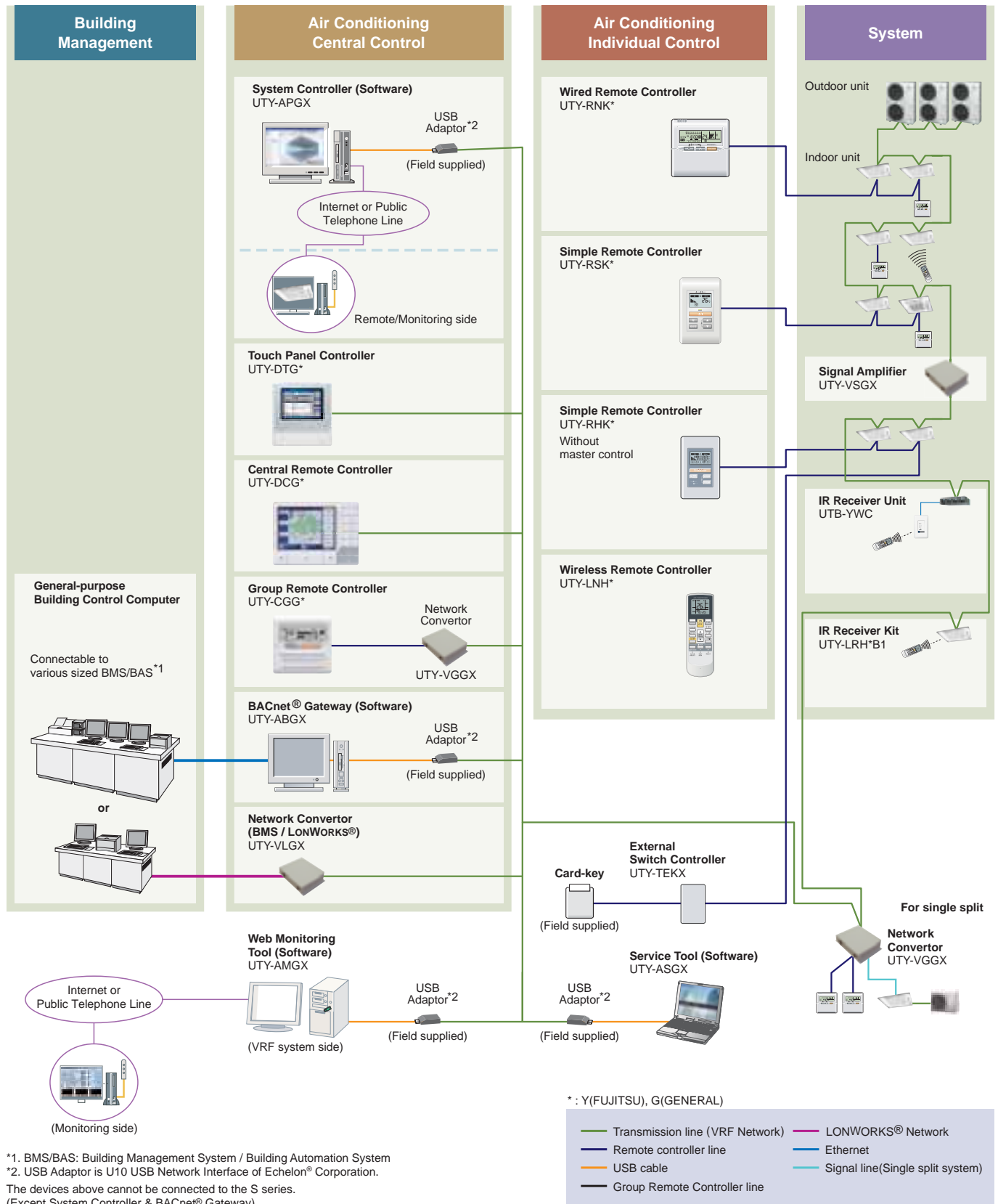
Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
Voltage : 230 [V].









Control Systems

System diagram

The V-II system supports every users needs by offering a variety of Control systems, including individual control, central control and building management control options.



Comparison table of Controllers

Item										
Model name			UTY-RHK*	UTY-RSK*	UTY-RHK*	UTY-LNH*	UTY-CGG*	UTY-DCG*	UTY-DTG*	UTY-APGX
Max. controllable remote controller groups			1	1	1	1	8	100	400	1600
Max. controllable indoor units			9 ²	9 ²	9 ²	9 ²	18 ²	100	400	1600
Max. controllable groups			—	—	—	—	—	16	400	1600
Air conditioning control function	On / Off		●	●	●	●	●	●	●	●
	Operation mode setting		●	●	—	●	●	●	●	●
	Fan speed setting		●	●	●	●	●	●	●	●
	Room temp. setting		●	●	●	●	●	●	●	●
	Room temp. set point limitation		—	—	—	—	—	●	●	●
	Test operation		●	●	—	●	—	●	●	—
	Up/down air direction flap setting		●	—	—	●	—	●	●	●
	Right/left air direction flap setting		●	—	—	●	—	●	●	●
	Group setting		—	—	—	—	—	●	●	●
	RC prohibition		—	—	—	—	—	●	●	●
	Anti freeze setting		—	—	—	—	—	●	●	●
	Economy mode setting		●	—	—	●	—	●	●	●
Display	Failure		●	●	●	—	●	●	●	●
	Defrosting		●	●	●	—	—	●	●	●
	Current time		●	—	—	●	●	●	●	●
	Day of week		●	—	—	—	●	—	●	●
	R.C. prohibition		●	●	●	—	—	●	●	●
	Cooling/heating priority		●	●	●	—	●	●	●	●
	Address display		●	●	●	—	●	●	●	●
Timer	Schedule timer	Period	Week	—	—	—	Week	Week	Year	Year
		On/off per day	4	—	—	—	4	20	20	72
		On/off per week	28	—	—	—	28	140	140	504
	On/off timer		●	—	—	●	—	—	—	—
	Sleep timer		—	—	—	●	—	—	—	—
	Program timer		—	—	—	●	—	—	—	—
	Day off		●	—	—	—	—	●	●	●
	Min. unit of timer setting (Minutes)		30	—	—	5	10	10	10	10
Control	Status monitoring system		—	—	—	—	—	●	●	●
	Electricity charge calculation		—	—	—	—	—	—	—	●
	Error history		●	●	●	—	●	●	●	●
	Emergency stop		—	—	—	—	—	● ^{*3}	● ^{*3}	—
	Control via internet		—	—	—	—	—	—	—	●
	E-mail notification for malfunction		—	—	—	—	—	—	—	●

K*: KY(FUJITSU), KYT(FUJITSU), KG(GENERAL), H*: HY(FUJITSU), HG(GENERAL), G*: GY(FUJITSU), GG(GENERAL)

*1 "Operation mode" setting is not available for this model.

*2 In the case of connection constitution for only J-II.

*3 This function is available only through external input. control.

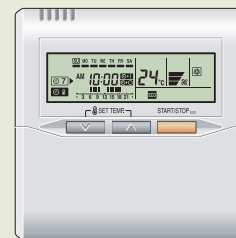
Wired Remote Controller

UTY-RNK*

The room temperature can be controlled by detecting the temperature accurately from the built-in sensor

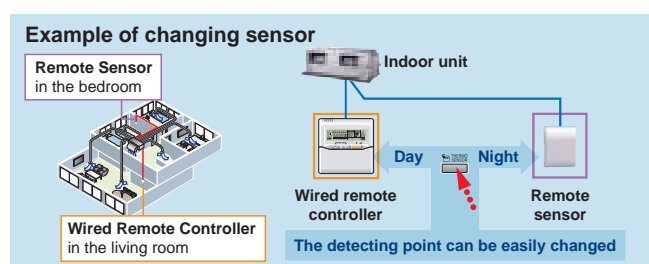
- Simple operation with Built-in Weekly / Daily Timer.
- Control up to 9 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.

Max. controllable
9
indoor units



Accurate and comfortable

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller. This new wired remote controller and the optional remote sensor allows flexibility in sensor location, suitable for all requirements.



Displayed temperature is set temperature.

Built-in timers

Weekly timer: Possible to set ON/OFF time to operate twice each day of the week.

Setback timer: Possible to set temperature for two times spans and for each day of the week.

At "Weekly timer" + "Set back timer" setup

Diagnosis check function

Two methods are available for determining the cause of failure in the event of a malfunction occurs:

Simple installation

Components are compatible with standard switch boxes. Flat back surface allows to be installed wherever it is needed.

Simple Remote Controller

UTY-RSK*

UTY-RHK* (Without ability to change operation mode)

Compact remote controller provides access to basic functions

- Up to 9 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.

Max. controllable
9
indoor units



UTY-RSK*



UTY-RHK*

Without ability to
change operation mode

User-friendly operation

- A large On / Off button is provided in the centre of the remote controller for easy operation.
- Background light enables easy operation in a darkened room.
- Following an error display, diagnostics can be carried out on the controller.



Functions

Model	UTY-RSK*	UTY-RHK*
On / Off	●	●
Fan control	●	●
Operation mode	●	— *1
Room temp. setting	●	●

*1: "Operation mode" setting is not available. It is recommend to use together with other type controller.

Specifications

Model No.	UTY-RNK*	UTY-RSK*	UTY-RHK*
Power Source	DC 12V	DC 12V	DC 12V
Dimensions (H x W x D) (mm)	120 x 120 x 18	120 x 75 x 14	120 x 75 x 14
Weight (g)	160	90 (100 : UTY-RSKYT)	90 (100 : UTY-RHKYT)

DC12V is supplied by the indoor unit.

K*: KY(FUJITSU), KYT(FUJITSU), KG(GENERAL)

Wireless Remote Controller

UTY-LNH*

Simple and sophisticated operations
with a choice of 4 daily timers

- A single controller controls up to 9 indoor units.

Max. controllable
9
indoor units

Selectable
4
daily timers



UTY-LNH*

Built-in timers

Select from 4 different timer programs:

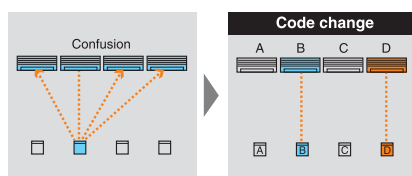
On / Off / Program / Sleep

Program timer: The program timer operates the ON and OFF timer once within a 24 hour period.

Sleep timer: The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.

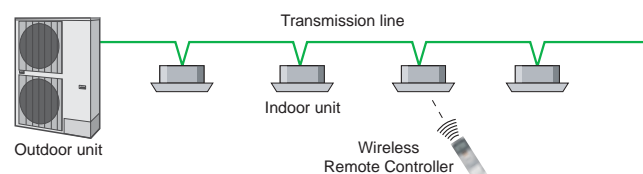
Easy operation setting

Code selector switch prevents indoor unit mix-up. (Up to 4 codes can be set.)

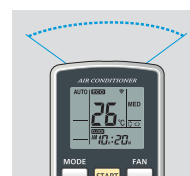


System addressing

During installation work, system addressing can be performed using the Wireless Remote Controller, thus eliminating manual switch setting.



Wide and precise

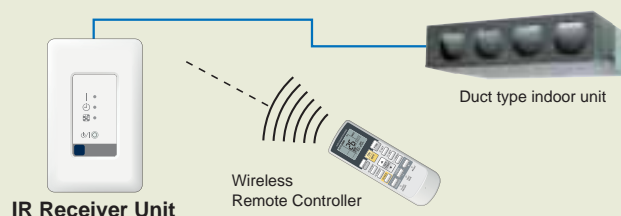


IR Receiver Unit

UTB-*WC

Necessary to control for all duct type by
Wireless Remote Controller

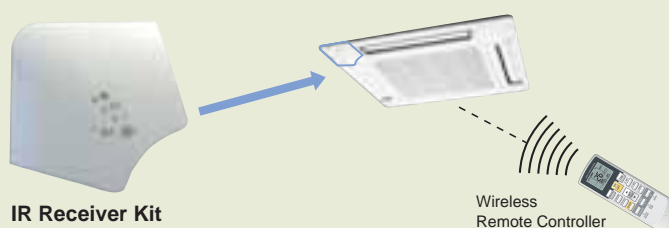
*WC : YWC, TWC



IR Receiver Kit

UTY-LRH*B1

Cassette type indoor unit can be controlled
with Wireless Remote Controller



Specifications

Model No.	UTY-LNH*	UTB-*WC	UTY-LRH*B1
Battery or Power source	1.5V (R03 / LR03 / AAA) x 2	DC 12V	DC 12V
Dimensions (H x W x D) (mm)	158 x 56 x 20	122 x 60 x 26.5	213.8 x 213.8 x 25.7
Weight (g)	70	150	140

DC12V is supplied by the indoor unit.

H*: HY(FUJITSU), HG(GENERAL)

Group Remote Controller

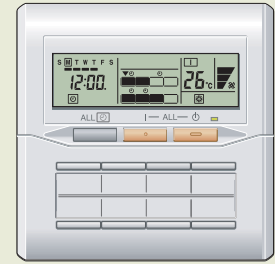
UTY-CGG*

Group control of indoor units with simple operation

- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one VRF network system.

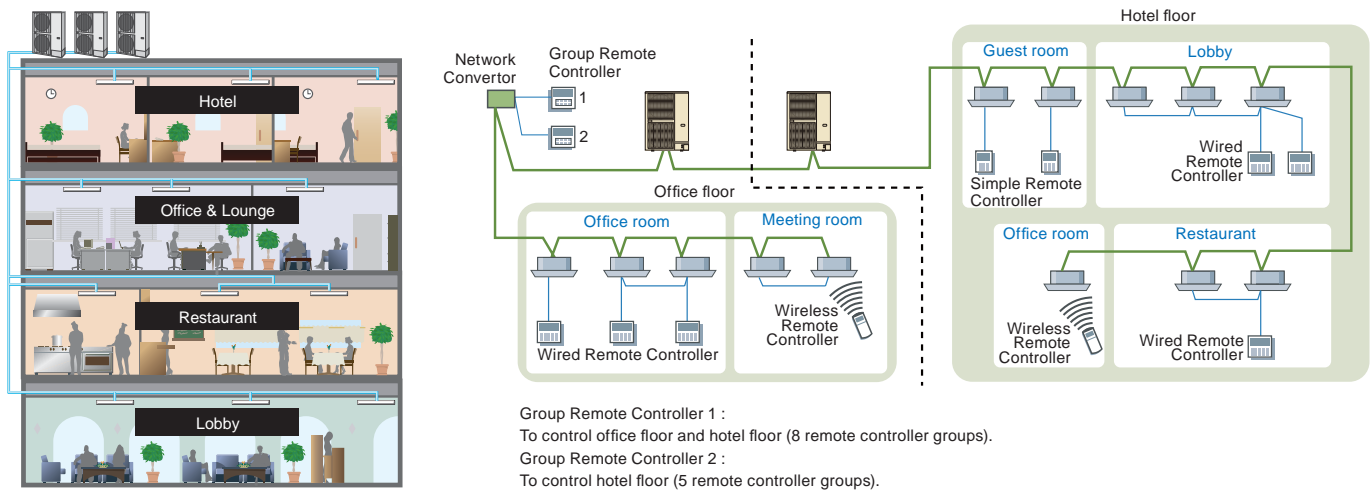
Max. controllable
64
group R.C. in a VRF
network system

Max. controllable
8
remote
controller groups

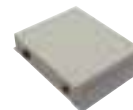


Control up to 8 remote controller groups

- Single Group Remote Controller controls and monitors up to 8 remote controller groups.



- Network Converter is required to connect Group Remote Controllers to a VRF network system.
(Network Converter allows up to 4 Group Remote Controllers)



Network Converter
UTY-VGGX

High performance and compact size

ON / OFF, Operating mode, Room temperature and Fan speed setting can be controlled / monitored centrally or individually.



Built-in weekly timers

The weekly timer is provided as a standard function.

1. The timer can be set up for up to 4 times per day. (On / Off, operating mode, set temperature)
2. Allows separate settings for each day of the week.

Specifications

Model No.	UTY-CGG*
Power Source	DC 12V
Dimensions (H x W x D) (mm)	120 x 120 x 18
Weight (g)	200

DC12V is supplied by a network converter.
G*: GY(FUJITSU), GG(GENERAL)

Central Remote Controller

UTY-DCG*

Central control of small- and medium-sized buildings and tenants.

- Individual control and monitor of 100 indoor units
- 5 inch TFT color screen
- User friendly view and easy operation
 - Automatic display switching for the number of connected units
 - Operation guidance display
 - Automatic switching of function menu
- Corresponds to 7 different languages like English, Chinese, French, German, Spanish, Russian, Polish.

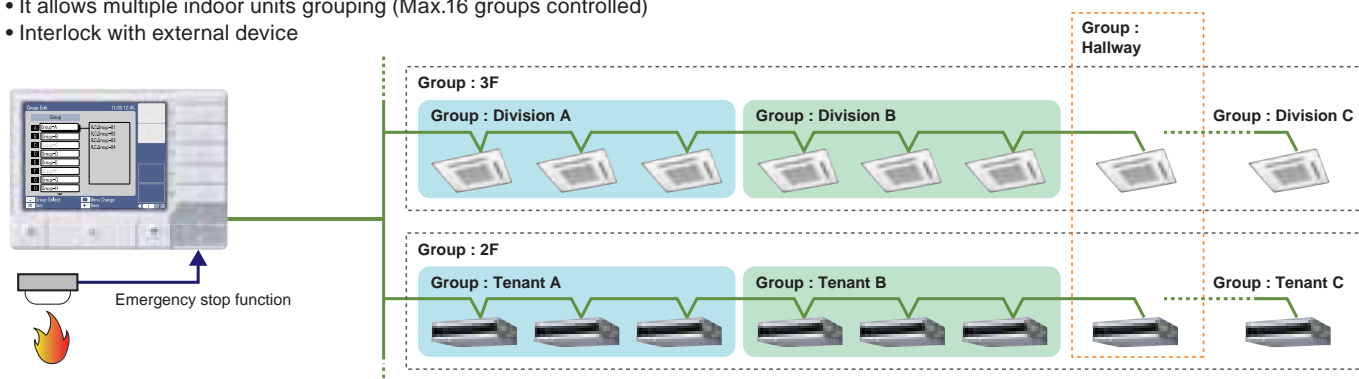
Max. controllable
100
Indoor units

Max. controllable
16
groups



System overview

- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



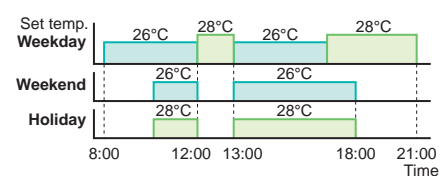
- External input / output contact
- Detachable power supply unit

Functions

Diverse control of indoor units

- Individual control
- Remote controller prohibition (All, On/Off, Mode, Temp., Timer, Filter)
- Room temperature set point upper and lower limitation

Weekly timer



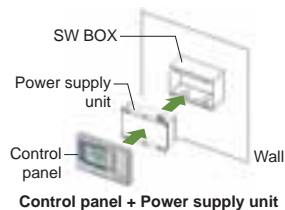
Automatic clock adjustment



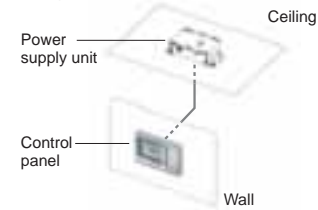
Easy Installation

- The control panel and power supply unit can be installed separately.
- For flexibility in installation, the Control panel can be built into the wall or fix on the wall.

Setting pattern 1



Setting pattern 2



Specifications

Model No.	UTY-DCG*	
	Control Panel	Power Supply Unit
Power Source	DC 5 V	100-240V, 50-60Hz, Single phase
Dimensions (H x W x D) (mm)	120 x 162 x 26	99 x 135 x 40
Weight (g)	308	355
PACKING LIST		
Packing List	Control Panel / Power Supply Unit / Connecting cable, etc.	

G*: GY(FUJITSU), GG(GENERAL)

Touch Panel Controller

UTY-DTG*

- Large-sized 7.5-inch TFT color
- LCD Easy finger touch operation
- Stylish shape and design to suit all application
- No additional component is required for installation
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

Max. controllable
400
indoor units



Real size screen image

Easy operation

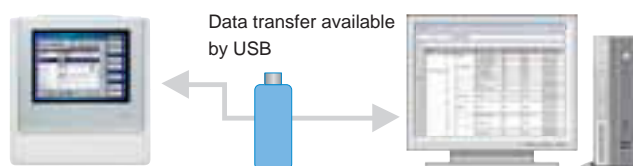
- Large and wide-angled LCD is easily viewable even at a distance
- Easy-to-understand icon-driven Graphical User Interface (GUI)
- Wide range of simple-to-understand icons



- Operation can be selected using your finger or the dedicated touch pen by pressing the appropriate on-screen icon
- Up-to-date status display
- Background color identifies current control operation Blue for monitoring, green for operational control
- Flat touch screen is easily cleaned
- Non-glare coating on touch panel controller minimizes fingerprint marking

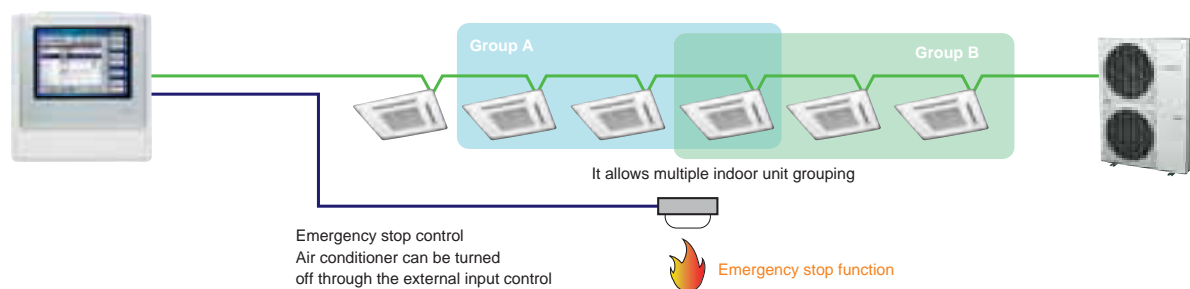
Versatility

CSV format data edited by PC can be imported to Touch Panel Controller.



System overview

Up to 400 indoor units can be controlled

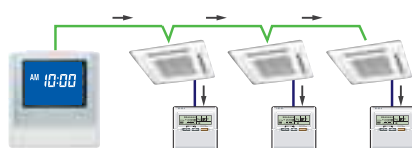


Functions

- Up to 400 indoor units can be controlled
- It allows multiple indoor units grouping
- Schedule timer function is standard (20 patterns per day)
- Emergency stop function(through the external input control)
- Temperature upper and lower limit setting
- The clock of each indoor unit correct setting

Automatic clock adjustment

The time setting of each controller can be set in batch automatically.



Individual control



Flexible grouping



Schedule control



Indoor units operation monitoring

Easy installation & maintenance

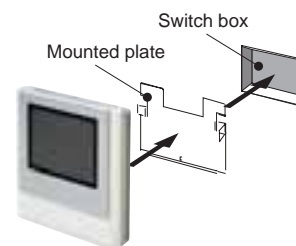
Touch Panel Controller is easily mounted to the wall. Flat back surface allows to be installed wherever it is needed.

- Correctable mechanism for tilting (horizontal) after the installation of the body

No additional component is required for installation

- There is no need for the installation space of power supply adaptor and transmission adaptor etc.

Easy-to-remove front cover



Specifications

Model No.	UTY-DTG*
Power Source	100-240V 50/60Hz
Dimensions (H x W x D) (mm)	260 x 246 x 54
Weight (g)	2,150
Interface	USB 2.0

G*: GY(FUJITSU), GG(GENERAL)

System Controller Software

UTY-APGX

System Controller realizes the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- Supports VRF S series, V series, V-II series and J-II series.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

Max. controllable
4
VRF network systems

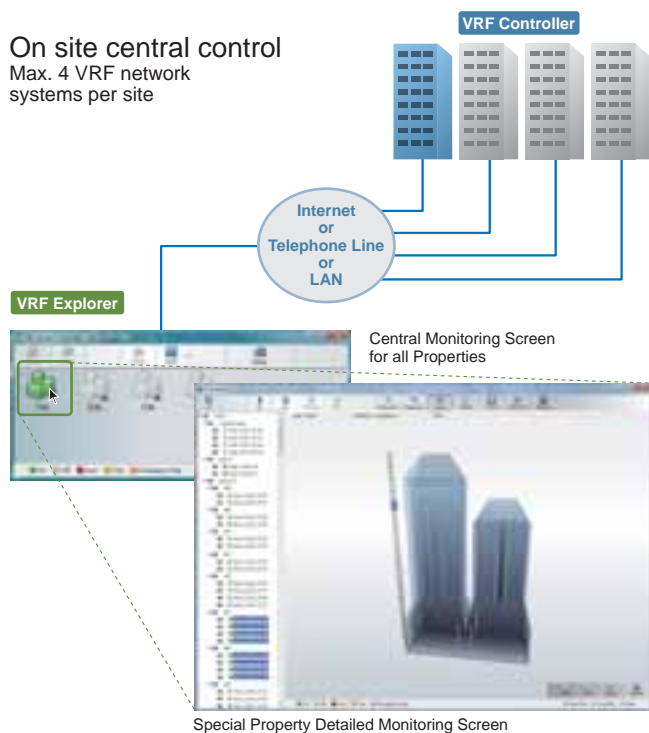
Max. controllable
400
outdoor units

Max. controllable
1,600
indoor units



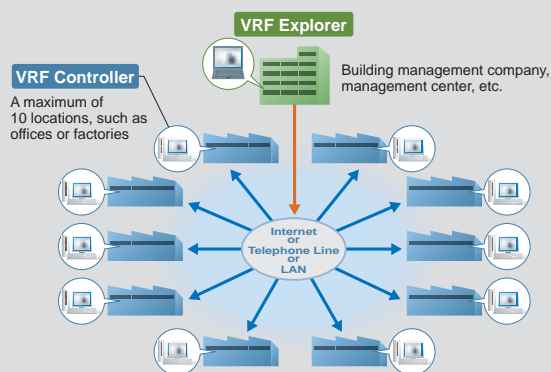
Remote centralized control

System Controller may be used on site or remotely over various networks for remote central control. System Controller requires 2 softwares working together. VRF Controller runs on site and communicate with VRF system. VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller. VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network. By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

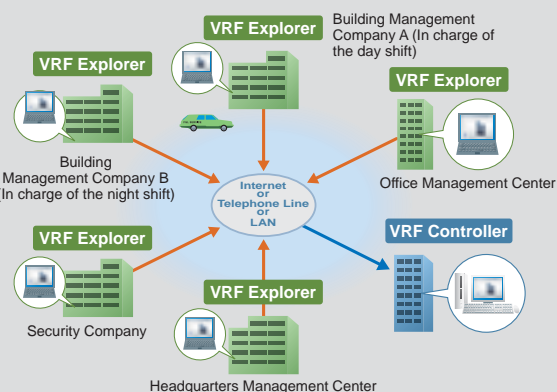


Remote central control

1 VRF Explorer can control or monitor up to 10 sites.



1 VRF Controller can be monitored from any number of VRF Explorers (Up to 5 connections simultaneously).



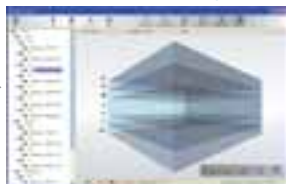
User friendly view and operation

Monitoring located site



Monitor mode (Site)

Main operation monitoring screen



Monitor mode (Building)

Operation monitoring of each site



Monitor mode (Floor)



Monitor mode (List)

Management functions



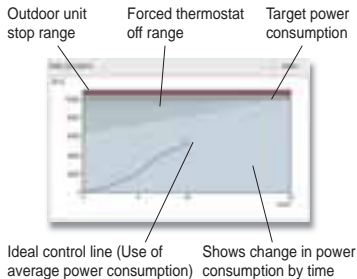
Schedule setting

Functions

Energy saving management Option UTY-PEGX:software

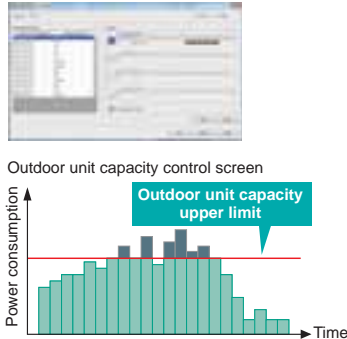
Peak cut operation

Controls overall operation while maintaining comfort according to the overall power consumption target value.



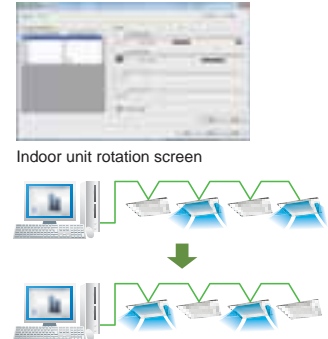
Outdoor unit capacity save

Sets an upper limit of outdoor unit capacity and performs capacity save operation at peak times.



Indoor unit rotation operation

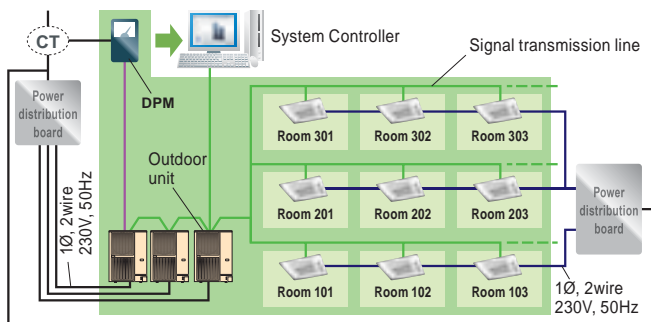
Reduces annual power consumption by operating indoor units in rotation.



Electricity charge apportionment

Apportions the power used by indoor and outdoor units and automatically calculates the electricity charge for each tenant. When you want to calculate the power used during a certain period in hotels, etc., computation linked with an electric meter is also possible. (Option)

Billing management for users for a set period of time, such as for hotels Option



Others

- Batched stop
- Divers control of indoor units
- Operating & control record
- Schedule control
- Error display & E-mail notification
- Prohibition setting

Specifications

Model No.	UTY-APGX
Personal Computer	AT compatible machine that runs Microsoft® Windows®
Operating System	Microsoft® Windows® XP Professional (Service Pack 3 or later / English version), Microsoft® Windows Vista® Home Premium, Business (Service Pack 2 or later / Corresponds to 7 different languages.*), Microsoft® Windows® 7 Professional (64-bit is not supported. / Corresponds to 7 different languages.*) *English, Chinese, French, German, Spanish, Russian, Polish
CPU	Intel® Pentium® / Celeron 2 GHz (VRF Controller), 1 GHz (VRF Explorer) or higher
HDD	40 GB or more of free space (5 GB for VRF Explorer PC)
Memory	2 GB or more (VRF Controller), 1 GB or more (VRF Explorer)
Interface	USB port is required for each of the followings for Server PC ; • Wibu Key (Software protection key) • Echelon® U10 USB Network Interface (Required for each VRF Network) Ethernet port is required for remote connection using internet.
Accelerator	Requires the internal graphics accelerator be compatible with Microsoft® DirectX® 9.0
Other Software Required	Adobe® Reader® 9.0 or later

PACKING LIST

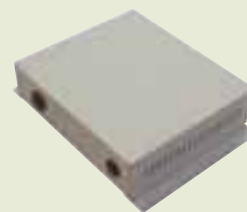
Wibe Key	Includes the software for System Controller. Both VRF Controller and VRF Explorer software is included.
CD-ROM	Software protection key to be inserted in a USB slot running System Controller. System Controller may only run on a PC with Wibu Key. Remote VRF Explorer software does not require Wibu Key.

Personal computer must be field supplied. U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.
Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number: 75010R

Network Convertor

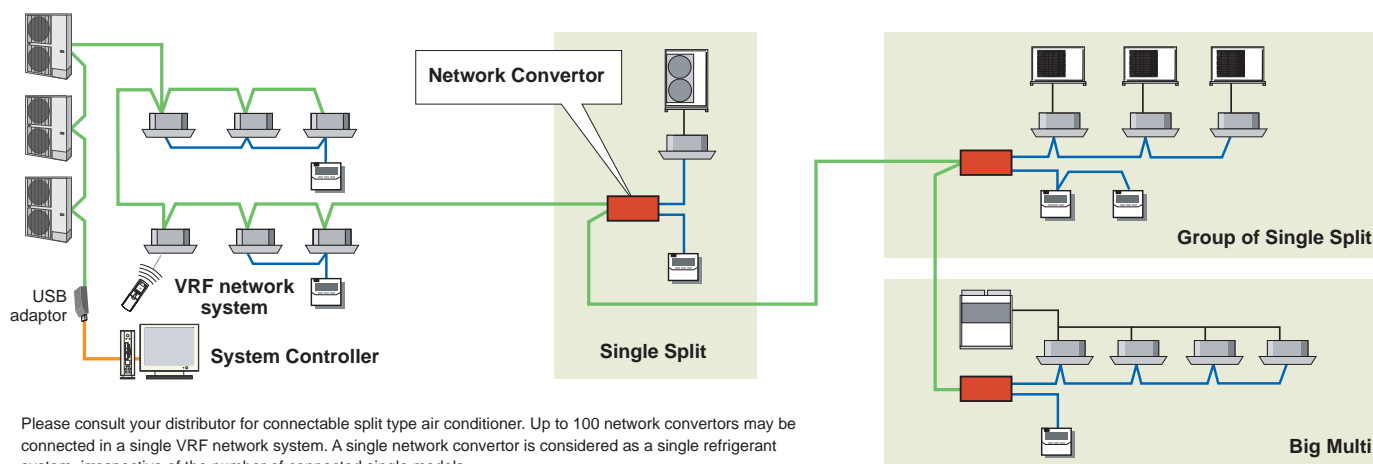
UTY-VGGX

- This network convertor is to be used for connecting single split system or group remote controller with the VRF network system.
- Please select the function by switching the dip switch during the installation.



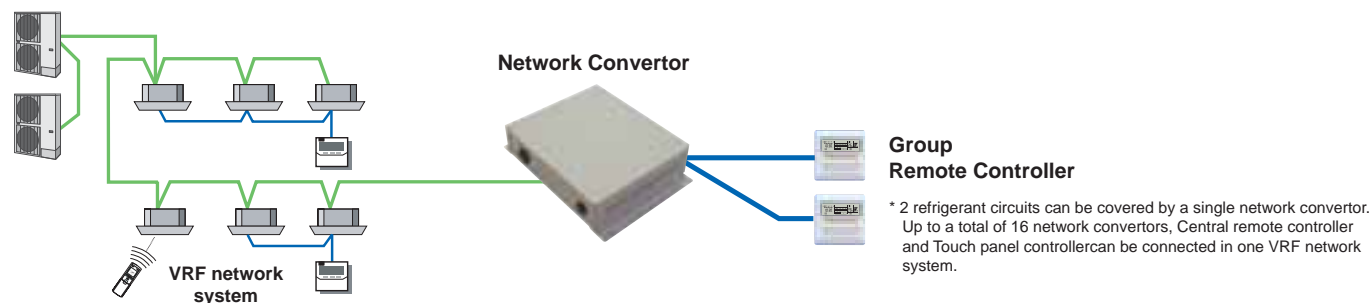
Installation example

- Split type systems can be controlled from a central remote controller or PC controller through connection to the VRF's network convertor.
- Standard remote controller and central remote controller provide On / Off control, master control, temperature and fan control, etc.
- A single network convertor can be used to connect and control up to 16 single units.



Used for connecting Group Remote Controller

4 group remote controllers can be connected to a single Network convertor.



Specifications

Model No.	UTY-VGGX
Power Source	50-60Hz 220-240V
Power Consumption (W)	8.5
Dimensions (H X W X D) (mm)	67 x 288 x 211
Weight (g)	1,500

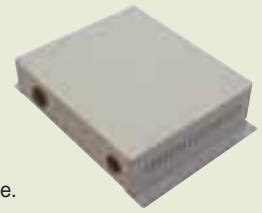
Model No.	UTY-VLGX
Power Source	220-240V 50/60Hz
Power Consumption (W)	4.5
Dimensions (H X W X D) (mm)	67 x 288 x 211
Weight (g)	1,500

Network Converter for LONWORKS®

UTY-VLGX

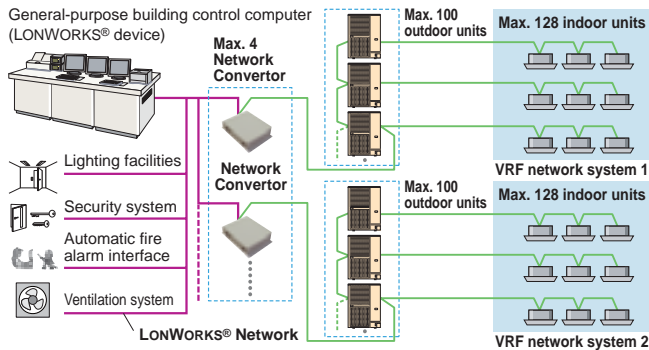
Max. controllable
4
Units to BMS

Max. controllable
128
indoor units



- For connection between VRF network system and a LONWORKS® open network for management of small to medium-sized BMS and VRF network system.
- The unit permits central monitoring and control of a VRF network system from a BMS through a LONWORKS® interface.
- Up to 128 Indoor units can be connected to one Network Converter for LONWORKS®

Installation example



Transmission specifications (BMS side)

Transmission speed	78kbps
Transceiver	FT-X1 (Echelon® Corporation)
Transmission way form	Free topology
Terminal resistor	None (It attaches at the terminal of a network.)

BACnet® Gateway

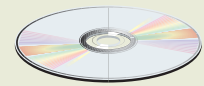
Software

UTY-ABGX

Max. controllable
4
VRF network systems

Max. controllable
400
outdoor units

Max. controllable
1,600
indoor units



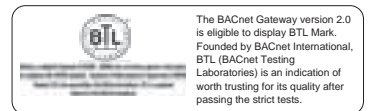
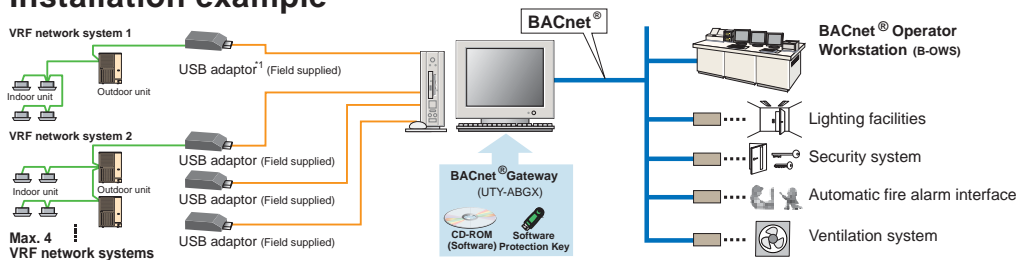
CD-ROM
(Software)



Software
Protection Key

- The VRF network system can be incorporated into a Building Management System.
- Enables central control of up to 1,600 indoor units through BACnet®, a global standard for open networks.
- Conforms to ANSI / ASHRAE Standards® 135-2004 BACnet® Application Specific Controller (B-ASC) BACnet® / IP over Ethernet.
- Connects up to 4 VRF network systems (1,600 indoor units / 400 outdoor units) per gateway.
- Supports VRF S/V series, V-II series and J-II series

Installation example



- = BACnet® Gateway for each system.
- = USB cable
- = Transmission line (VRF Network)
- = Ethernet

*1: USB adaptor is U10 USB Network Interface of Echelon® Corporation.

Specifications

Model No.	UTY-ABGX
Personal Computer	AT compatible machine that runs Microsoft® Windows®
Operating System	Microsoft® Windows® XP Professional (Service Pack 3 or later / Corresponds to 7 different languages.*) Microsoft® Windows Vista® Home Premium, Business (Service Pack 2 or later / Corresponds to 7 different languages.*) Microsoft® Windows® 7 Home Premium, Professional (Corresponds to 7 different languages.*) *English, Chinese, French, German, Spanish, Russian, Polish •64-bit version of Windows® are not supported.
CPU	Intel® Pentium® / Celeron®, AMD Athlon / Duron processor 2 GHz or higher
HDD	40 GB or more of free space
Memory	2 GB or more
Interface	USB port (x 2-5) is required Ethernet port is required
Other Software Required	Adobe® Reader® 9.0 or later

PACKING LIST

Packing List	CD-ROM / Wibu Key
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Personal computer must be field supplied. U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.
Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number : 75010R

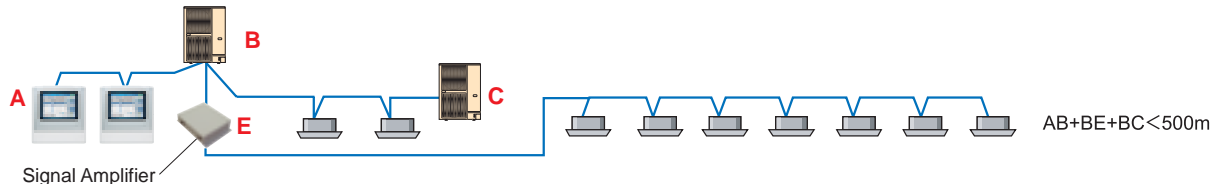
Signal Amplifier

UTY-VSGX

- Transmission Line length can be extended up to 3,600m for with multiple Signal Amplifiers.
- Up to 8 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,
 - (1) When the total wiring length of the transmission line exceeds 500m.
 - (2) When the total number of units on the transmission line exceeds 64.



Installation example

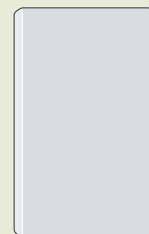


External Switch Controller

UTY-TEKX

Air conditioner switching can be controlled by connecting other sensor switches

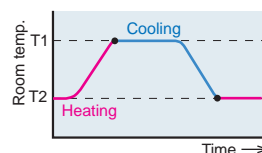
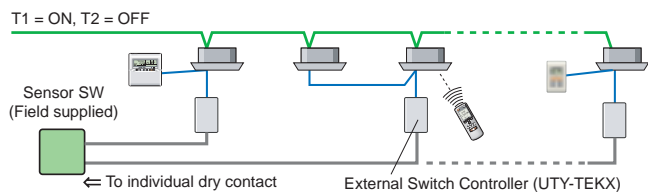
- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are available as a field supplied parts.



Installation example

Auto mode operation, which switches the cooling and the heating automatically, is enabled by using the sensor switch and External Switch Controller.

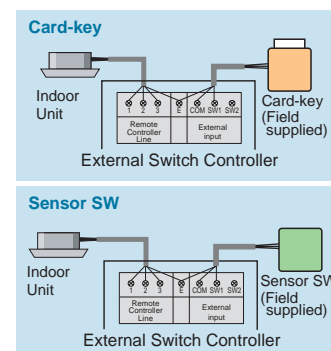
Note: All indoor units will operate in the same mode.



Note 1.
Please choose a thermosensor switch which can be set up for T1 and T2.

Note 2.
The remote controller's operation is prior to the auto mode operation.

Electrical wiring



Specifications

Model No.	UTY-VSGX
Power Source	220-240V 50/60Hz
Power Consumption (W)	4.5
Dimensions (H X W X D) (mm)	67 x 288 x 211
Weight (g)	1,500

Model No.	UTY-TEKX
Power Source	DC 12V
Dimensions (H X W X D) (mm)	120 x 75 x 30
Weight (g)	90

DC12V is supplied by the indoor unit.

Service Tool Software

UTY-ASGX

Extensive monitoring and analysis functions for installation and maintenance

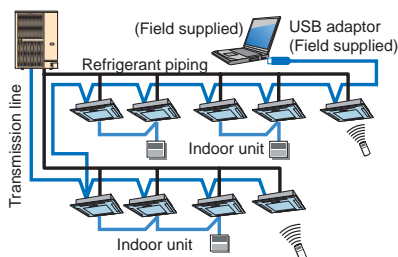
- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (field supplied).
- Supports VRF S/V series, V-II series and J-II series.

Max. Monitor and control
400
indoor units

Max. Monitor and control
100
outdoor units



Wiring connection



Functions

•Equipment Detail (Diagram)



- Equipment Detail (List)
- Operation History
- Error History
- Remote File Download
- System List
- Commissioning Tool
- Network Topology Analyzer
- Remote setting
- System Time Setting
- Central Release
- Model Name Writer
- Error Memory Reader
- Time Guard Information
- Software Version acquire and display

Web Monitoring Tool Software

UTY-AMGX

Product features

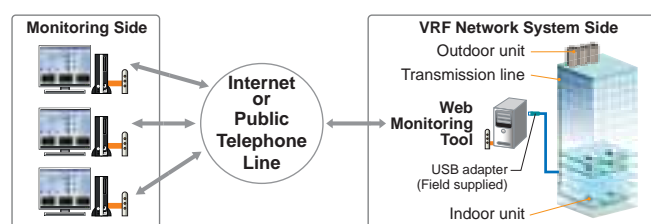
- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet*1.
- Requires either a dedicated internet connection or public telephone line.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- The monitoring data in a remote side can be optionally downloaded. And, this data can be displayed in offline mode of the service tool.
- Monitoring side computer is not required to install special software, requires only general web browser.
- Supports VRF S/V series, V-II series and J-II series.

VRF network system
can be supported
4

1,600
indoor units
can be supported

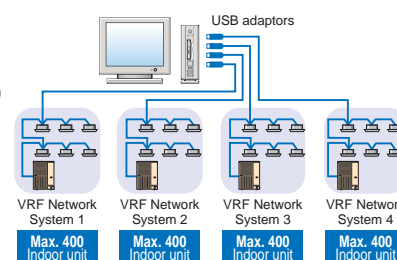
*1: Use of internet mail system required.

Web Monitoring System



Support 4 VRF network systems

USB adaptor (max. 4 adaptors per PC) permit, monitoring of up to 1,600 indoor units. Suitable for large-scale buildings or hotels.



Specifications

Model No.	UTY-ASGX	UTY-AMGX
Personal Computer	AT compatible machine that runs Microsoft® Windows®	
Operating System	Microsoft® Windows® XP Professional (English version / Service pack 3 or later), Microsoft® Windows® Vista® Home Premium, Business Edition (English version), Microsoft® Windows® 7 Professional (64-bit is not supported. / English version)	
CPU	Intel® Pentium® / Celeron®, AMD Athlon™ / Duron™ 1 GHz or higher	
HDD	10 GB or more of free space	40 GB or more of free space
Memory	1 GB (Vista, 7), 512 MB (XP) or more	1 GB or more
Interface	USB port for U10 USB Network Interface and Software protection key.	USB port (for U10 USB Network Interface Max.4, Software protection key) Following interface is required for remote connection: Public Telephone Line : Modem is required Internet using LAN : Ethernet port is required
Software	Internet Explorer 6.0 or 7.0 or 8.0 / Adobe® Reader® 9.0 or later	
Hardware	CD-ROM drive	

PACKING LIST

Packing List	CD-ROM / Wibu Key
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Personal computer must be field supplied. U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.
Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number: 75010R

VRF System Design

1. Quick model selection and design tool "Design Simulator" for VRF

Fujitsu General offers software which quickly performs model selection and creates material for model estimation in the VRF initial design stage. "Design Simulator" has functions which automatically select the proper model for the required capacity, automatically draft piping diagrams and wiring diagrams, and also automatically calculate the additional refrigerant charge amount, automatically generates the reports necessary for estimation. Operation is also easily performed by drag & drop and full-fledged model design estimates can be quickly made.

Features

- Automatic model selection of indoor unit and outdoor unit
- Simple drag & drop operation
- Automatic generation of piping diagrams and wiring diagrams
- Automatic calculation of additional refrigerant charge amount
- Auto CAD Data (DXF), Revit Mep Data (RFA) export
- Automatic report generation (Word, Excel)
- Multi-language capability



Design Simulator
for
FUJITSU VRF

2. 2D (DXF), 3D (RFA) contents data

Two kinds of model data, DXF data and RFA data, necessary in detailed design are offered.

These data can be procured from the Fujitsu General web site and Design Simulator













RFA data



FGL Web site

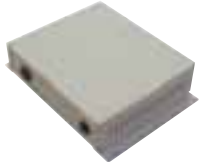
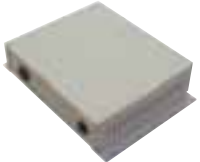
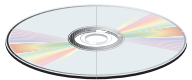

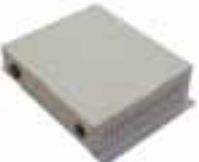

Optional Parts

Controllers

Wired Remote Controller UTY-RNK* 	Simple Remote Controller UTY-RSK* With operation mode 	Simple Remote Controller UTY-RHK* Without operation mode 
Wireless Remote Controller UTY-LNH* 	IR Receiver Unit UTB-YWC UTB-TWC For All Duct type 	IR Receiver Kit UTY-LRH*B1 For Cassette type 
Group Remote Controller UTY-CGG* 	Central Remote Controller UTY-DCG* 	Touch Panel Controller UTY-DTG* 
System Controller Software UTY-APGX 		







K*:KY(FUJITSU), KYT(FUJITSU), KG(GENERAL), H*: HY(FUJITSU), HG(GENERAL), G*: GY(FUJITSU), GG(GENERAL)

Convertors / Adaptors

Network Converter UTY-VGGX 	Network Converter for LONWORKS® UTY-VLGX 	BACnet® Gateway Software UTY-ABGX   CD-ROM (Software) Software Protection Key
Signal Amplifier UTY-VSGX 	External Switch Controller UTY-TEKX 	

Optional Parts




































Connection Tube

Separation Tube UTR-BP090X <div> Gas Pipe  </div> <div> Liquid Pipe  </div>	Header UTR-H0906L <div> Gas Pipe  </div> <div> Liquid Pipe  </div>	Header UTR-H0908L <div> Gas Pipe  </div> <div> Liquid Pipe  </div>
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Header

Model name	3-6 Branches	UTR-H0906L
	3-8 Branches	UTR-H0908L

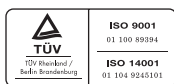
Others

Indoor unit type		Compact Duct	Slim Duct	Low Static Duct	Duct	High Static Duct	Compact Cassette	Slim Cassette	Cassette	Floor / Ceiling	Ceiling	Compact Wall Mounted	Wall Mounted
Item	Round	—	—			—	—	—	—	—		—	—
	Square	—	—			—	—	—	—	—	—	—	—
Remote Sensor Unit							—	—	—	—	—	—	—
Long-Life Filter		—	—				—	—	—	—	—	—	—
Auto Louver Grille Kit		—		—	—	—	—	—	—	—	—	—	—
Drain Pump Unit			—			—	—	—	—	—		—	—
Wide Panel		—	—	—	—	—			—	—	—	—	—
Air Outlet Shutter Plate		—	—	—	—	—				—	—	—	—
Panel Spacer		—	—	—	—	—			—	—	—	—	—
Grill Kit		—	—	—	—	—				—	—	—	—
Insulation Kit for High Humidity		—	—	—	—	—				—	—	—	—
Fresh Air Intake Kit		—	—	—	—	—				—	—	—	—
EV Kit		—	—	—	—	—	—	—	—	—	—		—

Flange (Round) UTD-RF204 For Low Static Pressure Duct type / Duct type / Ceiling type 	Flange (Square) UTD-SF045T For Low Static Pressure Duct type / Duct type 	Remote Sensor Unit UTD-RS100 For All Duct type  <p>New amenity space can be offered by installing the Remote sensor.</p>
Long-Life Filter UTD-LF25NA For Low Static Pressure Duct type / Duct type 	Long-Life Filter UTD-LF60KA For High Static Pressure Duct type 	Auto Louver Grille Kit UTD-GXSA-W (for ARXD07/09/12/14LATH) UTD-GXSB-W (for ARXD18LATH) UTD-GXSC-W (for ARXD24LATH) For Slim Duct type 
Drain Pump Unit UTZ-PX1BBA For Compact Duct type UTZ-PX1NBA For Low Static Pressure Duct type / Duct type 	Drain Pump Unit UTR-DPB24T For Ceiling type 	Wide Panel UTG-AGYA-W For Cassette type  <p>Indoor unit 950 Panel 600 600 (mm)</p>
Air Outlet Shutter Plate UTR-YDZB For Compact Cassette type Shuts the air outlet when only using as 3 blow out. 	Air Outlet Shutter Plate UTR-YDZC For Cassette type Shuts the air outlet when only using as 3 blow out. 	Panel Spacer UTG-BGYA-W For Cassette type  <p>50mm Panel spacer</p>
Grille Kit UTG-UFYC-W UTG-UFGC-W  <p>For Compact Cassette type</p>	Grille Kit UTG-UGYA-W UTG-UGGA-W  <p>For Cassette type</p>	Insulation Kit for High Humidity UTZ-KXGA For Cassette type UTZ-KXGB For Slim Cassette type UTZ-KXGC For Compact Cassette type  <p>Insulation Kit</p>
Fresh Air Intake Kit UTZ-VXAA  <p>For Compact Cassette type</p>	Fresh Air Intake Kit UTZ-VXGA  <p>For Cassette type</p>	EV Kit UTR-EV09XB (for AS*E07/09LACH) UTR-EV14XB (for AS*E12/14LACH)  <p>For Compact Wall Mounted type (EEV external type)</p>

FUJITSU GENERAL LIMITED

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<http://www.fujitsu-general.com/>



ISO 9001 Certified number : 01 100 89394
 ISO 14001 Certified number : 01 104 9245101
 Fujitsu General (Thailand) Co., Ltd.



ISO 9001 Certified number : 01 100 75269
 Fujitsu General (Shanghai) Co., Ltd.



ISO 14001 Certified number : 272043



ISO 9001 Certified number : 03608Q11061R2M
 ISO 14001 Certified number : 03608E20454R2M
 Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.

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